Author Index

A

Aarhus, L. L. *See* Perrella, M. A., Margulies, K. B., Wei, C.-M., Aarhus, L. L., Hublein, D. M., and Burnett, J. C., Jr.

Abbassi, O. *See* Smith, C. W., Kishimoto, T. K., Abbassi, O., Hughes, B., Rothlein, R., McIntire, L. V., Butcher, E., and Anderson, D. C.

Abboud, F. M. *See* Somers, V. K., Mark, A. L., and Abboud, F. M.

Abe, T., Kobayashi, N., Yoshimura, K., Trapnell, B. C., Kim, H., Hubbard, R. C., Brewer, M. T., Thompson, R. C., and Crystal, R. G. Expression of the secretory leukoprotease inhibitor gene in epithelial cells. 2207.

Abrams, G. D. *See* Schwaiger, M., Hutchins, G. D., Kalff, V., Rosenspire, K., Haka, M. S., Mallette, S., Deeb, G. M., Abrams, G. D., and Wieland, D.

Abramsky, O. *See* Link, H., Olsson, O., Sun, J., Wang, W.-Z., Andersson, G., Ekre, H.-P., Brenner, T., Abramsky, O., and Olsson, T.

Abramson, R. G. *See* Beck, J. C., Lipkowitz, M. S., and Abramson, R. G.

Accili, D. *See* Hurley, D. M., Accili, D., Stratakis, C. A., Karl, M., Vamvakopoulos, N., Rorer, E., Constantine, K., Taylor, S. I., and Chrousos, G. P.

Adamik, R. *See* Lee, C.-M., Chang, P. P., Tsai, S.-C., Adamik, R., Price, S. R., Kunz, B. C., Moss, J., Twiddy, E. M., and Holmes, R. K.

Adams, J. S. *See* Gacad, M. A., and Adams, J. S.

Adelman, B. *See* Sobel, M., McNeill, P. M., Carlson, P. L., Kermode, J. C., Adelman, B., Conroy, R., and Marques, D.

Adnot, S., Raffestin, B., Eddahibi, S., Braquet, P., and Chabrier, P.-E. Loss of endothelium-dependent relaxant activity in the pulmonary circulation of rats exposed to chronic hypoxia. 155.

Advani, S. *See* Ahuja, H., Bar-Eli, M., Arlin, Z., Advani, S., Allen, S. L., Goldman, J., Snyder, D., Foti, A., and Cline, M.

Ahuja, H., Bar-Eli, M., Arlin, Z., Advani, S., Allen, S. L., Goldman, J., Snyder, D., Foti, A., and Cline, M. The spectrum of molecular alterations in the evolution of chronic myelocytic leukemia. 2042.

Akaboshi, I. *See* Mitsubuchi, H., Nobukuni, Y., Akaboshi, I., Indo, Y., Endo, F., and Matsuda, I.

— *See* Nobukuni, Y., Mitsubuchi, H., Akaboshi, I., Indo, Y., Endo, F., Yoshioka, A., and Matsuda, I.

— *See* Tanoue, A., Endo, F., Akaboshi, I., Oono, T., Arata, J., and Matsuda, I.

Aktories, K. *See* Suttorp, N., Polley, M., Seybold, J., Schnittler, H., Seeger, W., Grimminger, F., and Aktories, K.

Albers, J. J. *See* Funke, H., Von Eckardstein, A., Pritchard, P. H., Karas, M., Albers, J. J., and Assmann, G.

Alessi, D. *See* Bussolino, F., Ziche, M., Wang, J. M., Alessi, D., Morbidelli, L., Cremona, O., Bosia, A., Marchisio, P. C., and Mantovani, A.

Alexander, E., III. *See* Rossitch, E., Jr., Alexander, E., III, Black, P. M., and Cooke, J. P.

Allen, J. B., Wong, H. L., Guyre, P. M., Simon, G. L., and Wahl, S. M. Association of circulating receptor FcγRIII-positive monocytes in AIDS patients with elevated levels of transforming growth factor-β. 1773.

— *See* Brandes, M. E., Allen, J. B., Ogawa, Y., and Wahl, S. M.

Allen, R. H. *See* Stabler, S. P., Brass, E. P., Marcell, P. D., and Allen, R. H.

Allen, S. L. *See* Ahuja, H., Bar-Eli, M., Arlin, Z., Advani, S., Allen, S. L., Goldman, J., Snyder, D., Foti, A., and Cline, M.

Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J. Sp$\alpha^{\gamma/41}$: a common spectrin polymorphism at the αIV–αV domain junction. Relevance to the expression level of hereditary elliptocytosis due to α-spectrin variants located in *trans*. 2169.

Alpers, C. E. *See* Johnson, R. J., Iida, H., Alpers, C. E., Majesky, M. W., Schwartz, S. M., Pritzl, P., Gordon, K., and Gown, A. M.

Alsina, M. A. *See* Yoneda, T., Alsina, M. A., Chavez, J. B., Bonewald, L., Nishimura, R., and Mundy, G. R.

Altemayer, D. *See* Plotkowski, M. C., Chevillard, M., Pierrot, D., Altemayer, D., Zahm, J. M., Colliot, G., and Puchelle, E.

Ambrosio, G., Flaherty, J. T., Duilio, C., Tritto, I., Santoro, G., Elia, P. P., Condorelli, M., and Chiariello, M. Oxygen radicals generated at reflow induce peroxidation of membrane lipids in reperfused hearts. 2056.

Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C. Familial chylomicronemia (type I hyperlipoproteinemia) due to a single missense mutation in the lipoprotein lipase gene. 1165.

Ammar, A., Cibert, C., Bertoli, A.-M., Tsilivakos, V., Jasmin, C., and Georgoulias, V. Biological and biochemical characterization of a factor produced spontaneously by adherent cells of human immunodeficiency virus–infected patients inhibiting interleukin-2 receptor α chain (Tac) expression on normal T cells. 2048.

Amselem, S., Sobrier, M.-L., Duquesnoy, P., Rappaport, R., Postel-Vinay, M.-C., Gourmelen, M., Dallapiccola, B., and Goossens, M. Recurrent nonsense mutations in the growth hormone receptor from patients with Laron dwarfism. 1098.

Anastassiou, E. D. *See* Boumpas, D. T., Anastassiou, E. D., Older, S. A., Tsokos, G. C., Nelson, D. L., and Balow, J. E.

Anbo, H. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.

Anderson, D. C. *See* Smith, C. W., Kishimoto, T. K., Abbassi, O., Hughes, B., Rothlein, R., McIntire, L. V., Butcher, E., and Anderson, D. C.

Anderson, E. A., Hoffman, R. P., Balon, T. W., Sinkey, C. A., and Mark, A. L. Hyperinsulinemia produces both sympathetic neural activation and vasodilation in normal humans. 2246.

Anderson, K. L. *See* Arnett, F. C., Olsen, M. L., Anderson, K. L., and Reveille, J. D.

Anderson, R. G. W. *See* Kamen, B. A., Smith, A. K., and Anderson, R. G. W.

Anderson, R. J., Breckon, R., and Dixon, B. S. ATP receptor regulation of adenylate cyclase and protein kinase C activity in cultured renal LLC-PK$_1$ cells. 1732.

Andersson, G. *See* Link, H., Olsson, O., Sun, J., Wang, W.-Z., Andersson, G., Ekre, H.-P., Brenner, T., Abramsky, O., and Olsson, T.

Ando, K. *See* Shichiri, M., Hirata, Y., Nakajima, T., Ando, K., Imai, T., Yanagisawa, M., Masaki, T., and Marumo, F.

Angelin, B. *See* Ericsson, S., Eriksson, M., Vitols, S., Einarsson, K., Berglund, L., and Angelin, B.

Antony, A. C., Briddell, R. A., Brandt, J. E., Straneva, J. E., Verma, R. S., Miller, M. E., Kalasinski, L. A., and Hoffman, R. Megaloblastic hematopoiesis in vitro. Interaction of anti–folate receptor antibodies with hematopoietic progenitor cells leads to a proliferative response independent of megaloblastic changes. 313.

Apodaca, G., Bomsel, M., Arden, J., Breitfeld, P. P., Tang, K., and Mostov, K. E. The polymeric immunoglobulin receptor. A model protein to study transcytosis. 1877.

Apstein, C. S. *See* Knowlton, A. A., Brecher, P., and Apstein, C. S.

Arakaki, N. *See* Strain, A. J., Ismail, T., Tsubouchi, H., Arakaki, N., Hishida, T., Kitamura, N., Daikuhara, Y., and McMaster, P.

Araki, Y. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.

Aranow, C. *See* Grayzel, A., Solomon, A., Aranow, C., and Diamond, B.

Arata, J. *See* Tanoue, A., Endo, F., Akaboshi, I., Oono, T., Arata, J., and Matsuda, I.

Archer, D. C. *See* Lemire, J. M., and Archer, D. C.

Arden, J. *See* Apodaca, G., Bomsel, M., Arden, J., Breitfeld, P. P., Tang, K., and Mostov, K. E.

Arlin, Z. *See* Ahuja, H., Bar-Eli, M., Arlin, Z., Advani, S., Allen, S. L., Goldman, J., Snyder, D., Foti, A., and Cline, M.

Armitage, G. *See* Perez, H. D., Kelly, E., Elfman, F., Armitage, G., and Winkler, J.

Arnett, F. C., Olsen, M. L., Anderson, K. L., and Reveille, J. D. Molecular analysis of major histocompatibility complex alleles associated with the lupus anticoagulant. 1490.

Assmann, G. *See* Funke, H., Von Eckardstein, A., Pritchard, P. H., Karas, M., Albers, J. J., and Assmann, G.
— *See* Von Eckardstein, A., Holz, H., Sandkamp, M., Weng, W., Funke, H., and Assmann, G.
Atkinson, M. A., Holmes, L. A., Scharp, D. W., Lacy, P. E., and Maclaren, N. K. No evidence for serological autoimmunity to islet cell heat shock proteins in insulin dependent diabetes. 721.
Au, Y. P. T. *See* Golden, M. A., Au, Y. P. T., Kirkman, T. R., Wilcox, J. N., Raines, E. W., Ross, R., and Clowes, A. W.
Aucouturier, P. *See* Cogné, M., Preud'homme, J-L, Bauwens, M., Touchard, G., and Aucouturier, P.
Aula, P. P. *See* Mancini, G. M. S., Beerens, C. E. M. T., Aula, P. P., and Verheijen, F. W.
Austen, K. F. *See* Owen, W. F., Jr., Petersen, J., and Austen, K. F.
Avioli, L. V. *See* Pacifici, R., Carano, A., Santoro, S. A., Rifas, L., Jeffrey, J. J., Malone, J. D., McCracken, R., and Avioli, L. V.
Aviv, A. *See* Maher, E., Bardequez, A., Gardner, J. P., Goldsmith, L., Weiss, G., Mascarina, M., and Aviv, A.
Avraham, K. B. *See* White, C. W., Avraham, K. B., Shanley, P. F., and Groner, Y.
Aznar, J. *See* Santos, M. T., Valles, J., Marcus, A. J., Safier, L. B., Broekman, M. J., Islam, N., Ullman, H. L., Eiroa, A. M., and Aznar, J.
Azzawi, M. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.

B

Babior, B. M. *See* Woodman, R. C., Ruedi, J. M., Jesaitis, A. J., Okamura, N., Quinn, M. T., Smith, R. M., Curnutte, J. T., and Babior, B. M.
Baer, R. J. *See* Jonsson, O. G., Kitchens, R. L., Baer, R. J., Buchanan, G. R., and Smith, R. G.
Bagdade, J. D., Ritter, M. C., and Subbaiah, P. V. Accelerated cholesteryl ester transfer in plasma of patients with hypercholesterolemia. 1259.
Baggiolini, M. *See* Kernen, P., Wymann, M. P., Von Tscharner, V., Deranleau, D. A., Tai, P.-C., Spry, C. J., Dahinden, C. A., and Baggiolini, M.
— *See* Seitz, M., Dewald, B., Gerber, N., and Baggiolini, M.
Bahou, W. F. *See* Cooney, K. A., Nichols, W. C., Bruck, M. E., Bahou, W. F., Shapiro, A. D., Bowie, E. J. W., Gralnick, H. R., and Ginsburg, D.
Bail, S. *See* Kulozik, A. E., Bail, S., Bellan-Koch, A., Bartram, C. R., Kohne, E., and Kleihauer, E.
Bailie, K. E. *See* Lyons, T. J., Bailie, K. E., Dyer, D. G., Dunn, J. A., and Baynes, J. W.
Bainton, D. F. *See* Lages, B., Shattil, S. J., Bainton, D. F., and Weiss, H. J.
Baklouti, F. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.
Bakris, G. L., Fairbanks, R., and Traish, A. M. Arginine vasopressin stimulates human mesangial cell production of endothelin. 1158.
Ballou, L. R., Barker, S. C., Postlethwaite, A. E., and Kang, A. H. Interleukin 1 stimulates phosphatidylinositol kinase activity in human fibroblasts. 299.
Balon, T. W. *See* Anderson, E. A., Hoffman, R. P., Balon, T. W., Sinkey, C. A., and Mark, A. L.
Balow, J. E. *See* Boumpas, D. T., Anastassiou, E. D., Older, S. A., Tsokos, G. C., Nelson, D. L., and Balow, J. E.
Balzano, S. *See* Takeda, K., Balzano, S., Sakurai, A., DeGroot, L. J., and Refetoff, S.
Banville, D. *See* Kremer, R., Karaplis, A. C., Henderson, J., Gulliver, W., Banville, D., Hendy, G. N., and Goltzman, D.
Bardequez, A. *See* Maher, E., Bardequez, A., Gardner, J. P., Goldsmith, L., Weiss, G., Mascarina, M., and Aviv, A.
Bar-Eli, M. *See* Ahuja, H., Bar-Eli, M., Arlin, Z., Advani, S., Allen, S. L., Goldman, J., Snyder, D., Foti, A., and Cline, M.
Barker, S. C. *See* Ballou, L. R., Barker, S. C., Postlethwaite, A. E., and Kang, A. H.
Baron, A. D., Laakso, M., Brechtel, G., and Edelman, S. V. Reduced capacity and affinity of skeletal muscle for insulin-mediated glucose uptake in noninsulin-dependent diabetic subjects. Effects of insulin therapy. 1186.
Barrera, S. A. *See* Conrad, K. P., Barrera, S. A., Friedman, P. A., and Schmidt, V. M.
Barrett, E. J. *See* Young, L. H., McNulty, P. H., Morgan, C., Deckelbaum, L. I., Zaret, B. L., and Barrett, E. J.
Bartram, C. R. *See* Kulozik, A. E., Bail, S., Bellan-Koch, A., Bartram, C. R., Kohne, E., and Kleihauer, E.
Basbaum, C. B. *See* Jany, B. H., Gallup, M. W., Yan, P-S, Gum, J. R., Kim, Y. S., and Basbaum, C. B.
Bass, J., Fisher, E. A., Prack, M. M., Williams, D. L., and Marsh, J. B. Macrophages from nephrotic rats regulate apolipoprotein E biosynthesis and cholesterol content independently. 470.
Baum, M. *See* Colletta, A. A., Wakefield, L. M., Howell, F. V., Danielpour, D., Baum, M., and Sporn, M. B.
— *See* Coor, C., Salmon, R. F., Quigley, R., Marver, D., and Baum, M.
Bauwens, M. *See* Cogné, M., Preud'homme, J-L, Bauwens, M., Touchard, G., and Aucouturier, P.
Bayne, M. L. *See* Tollefsen, S. E., Heath-Monnig, E., Cascieri, M. A., Bayne, M. L., and Daughaday, W. H.
Baynes, J. W. *See* Lyons, T. J., Bailie, K. E., Dyer, D. G., Dunn, J. A., and Baynes, J. W.
Beasley, D., Schwartz, J. H., and Brenner, B. M. Interleukin 1 induces prolonged L-arginine-dependent cyclic guanosine monophosphate and nitrite production in rat vascular smooth muscle cells. 602.
Beck, J. C., Lipkowitz, M. S., and Abramson, R. G. Ontogeny of Na/H antiporter activity in rabbit renal brush border membrane vesicles. 2067.
Beerens, C. E. M. T. *See* Mancini, G. M. S., Beerens, C. E. M. T., Aula, P. P., and Verheijen, F. W.
Belin, D. *See* Sappino, A.-P., Huarte, J., Vassalli, J.-D., and Belin, D.
Bellan-Koch, A. *See* Kulozik, A. E., Bail, S., Bellan-Koch, A., Bartram, C. R., Kohne, E., and Kleihauer, E.
Beltz, W. F. *See* Goldberg, D. I., Beltz, W. F., and Pittman, R. C.
Bendel, C. M. *See* Gustafson, K. S., Vercellotti, G. M., Bendel, C. M., and Hostetter, M. K.
Benlian, P. *See* Pessah, M., Benlian, P., Beucler, I., Loux, N., Schmitz, J., Junien, C., and Infante, R.
Bennett, V., and Lambert, S. The spectrin skeleton: from red cells to brain. 1483.
Ben-Zeev, O. *See* Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C.
Berglund, L. *See* Ericsson, S., Eriksson, M., Vitols, S., Einarsson, K., Berglund, L., and Angelin, B.
Berliner, J. A. *See* Liao, F., Berliner, J. A., Mehrabian, M., Navab, M., Demer, L. L., Lusis, A. J., and Fogelman, A. M.
Bertoli, A.-M. *See* Ammar, A., Cibert, C., Bertoli, A.-M., Tsilivakos, V., Jasmin, C., and Georgoulias, V.
Beucler, I. *See* Pessah, M., Benlian, P., Beucler, I., Loux, N., Schmitz, J., Junien, C., and Infante, R.
Beutler, B., and Brown, T. A CAT reporter construct allows ultrasensitive estimation of TNF synthesis, and suggests that the TNF gene has been silenced in non-macrophage cell lines. 1336.
Bhathal, P. S. *See* Tay, D. L. M., Bhathal, P. S., and Fox, R. M.
Bhatnagar, R. *See* Sarin, S. K., Groszmann, R. J., Mosca, P. G., Rojkind, M., Stadecker, M. J., Bhatnagar, R., Reuben, A., and Dayal, Y.
Biederman, R. W. W. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.
Birnbaum, M. J. *See* Garvey, W. T., Maianu, L., Huecksteadt, T. P., Birnbaum, M. J., Molina, J. M., and Ciaraldi, T. P.
Bissell, D. M. *See* Hultcrantz, R., Bissell, D. M., and Roll, F. J.
Black, P. M. *See* Rossitch, E., Jr., Alexander, E., III, Black, P. M., and Cooke, J. P.
Black, R. *See* Mizutani, H., Black, R., and Kupper, T. S.
Blackman, J. D. *See* Sturis, J., Van Cauter, E., Blackman, J. D., and Polonsky, K. S.
Blander, S. J., and Horwitz, M. A. Vaccination with *Legionella pneumophila* membranes induces cell-mediated and protective immunity in a guinea pig model of Legionnaires' disease. Protective immunity independent of the major secretory protein of *Legionella pneumophila*. 1054.

Blantz, R. C. *See* Hirschberg, R., Kopple, J. D., Blantz, R. C., and Tucker, B. J.
Blaser, M. J. *See* Mai, U. E. H., Perez-Perez, G. I., Wahl, L. M., Wahl, S. M., Blaser, M. J., and Smith, P. D.
Bodeau, A. L. *See* Miyasaki, K. T., and Bodeau, A. L.
Boerwinkle, E. *See* Lackner, C., Boerwinkle, E., Leffert, C. C., Rahmig, T., and Hobbs, H. H.
Bogardus, C. *See* Kida, Y., Nyomba, B. L., Bogardus, C., and Mott, D. M.
Bomsel, M. *See* Apodaca, G., Bomsel, M., Arden, J., Breitfeld, P. P., Tang, K., and Mostov, K. E.
Bonadonna, R. C. *See* Groop, L. C., Bonadonna, R. C., Shank, M., Petrides, A. S., and DeFronzo, R. A.
Bonewald, L. *See* Yoneda, T., Alsina, M. A., Chavez, J. B., Bonewald, L., Nishimura, R., and Mundy, G. R.
Bonnefont, J.-P. *See* Demaugre, F., Bonnefont, J.-P., Colonna, M., Cepanec, C., Leroux, J.-P., and Saudubray, J.-M.
Bonner-Weir, S. *See* Meyerovitch, J., Rothenberg, P., Shechter, Y., Bonner-Weir, S., and Kahn, C. R.
Bonventre, J. V. *See* Nakamura, H., Nemenoff, R. A., Gronich, J. H., and Bonventre, J. V.
Bookchin, R. M., Ortiz, O. E., and Lew, V. L. Evidence for a direct reticulocyte origin of dense red cells in sickle cell anemia. 113.
— *See* Lew, V. L., Freeman, C. J., Ortiz, O. E., and Bookchin, R. M.
Boom, W. H. *See* Havlir, D. V., Ellner, J. J., Chervenak, K. A., and Boom, W. H.
Bornens, M. *See* Maridonneau-Parini, I., Yang, C.-Z., Bornens, M., and Goud, B.
Bosco, D. *See* Giordano, E., Bosco, D., Cirulli, V., and Meda, P.
Bosia, A. *See* Bussolino, F., Ziche, M., Wang, J. M., Alessi, D., Morbidelli, L., Cremona, O., Bosia, A., Marchisio, P. C., and Mantovani, A.
Bostick-Bruton, F. *See* Parker, R. J., Eastman, A., Bostick-Bruton, F., and Reed, E.
Boumpas, D. T., Anastassiou, E. D., Older, S. A., Tsokos, G. C., Nelson, D. L., and Balow, J. E. Dexamethasone inhibits human interleukin 2 but not interleukin 2 receptor gene expression in vitro at the level of nuclear transcription. 1739.
Bousseau, A. *See* Vicaut, E., Hou, X., Payen, D., Bousseau, A., and Tedgui, A.
Bowie, E. J. W. *See* Cooney, K. A., Nichols, W. C., Bruck, M. E., Bahou, W. F., Shapiro, A. D., Bowie, E. J. W., Gralnick, H. R., and Ginsburg, D.
Boyer, J. L. *See* Strazzabosco, M., Mennone, A., and Boyer, J. L.
Bradley, B. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.
Brady, L. S., Whitfield, H. J., Jr., Fox, R. J., Gold, P. W., and Herkenham, M. Long-term antidepressant administration alters corticotropin-releasing hormone, tyrosine hydroxylase, and mineralocorticoid receptor gene expression in rat brain. Therapeutic implications. 831.
Brandes, M. E., Allen, J. B., Ogawa, Y., and Wahl, S. M. Transforming growth factor β1 suppresses acute and chronic arthritis in experimental animals. 1108.
Brandt, J. E. *See* Antony, A. C., Briddell, R. A., Brandt, J. E., Straneva, J. E., Verma, R. S., Miller, M. E., Kalasinski, L. A., and Hoffman, R.
Braquet, P. *See* Adnot, S., Raffestin, B., Eddahibi, S., Braquet, P., and Chabrier, P.-E.
Brasitus, T. A. *See* Dudeja, P. K., Wali, R. K., Klitzke, A., Sitrin, M. D., and Brasitus, T. A.
— *See* Jacoby, R. F., Llor, X., Teng, B.-B., Davidson, N. O., and Brasitus, T. A.
Brass, C. A., Narciso, J., and Gollan, J. L. Enhanced activity of the free radical producing enzyme xanthine oxidase in hypoxic rat liver. Regulation and pathophysiologic significance. 424.
Brass, E. P. *See* Stabler, S. P., Brass, E. P., Marcell, P. D., and Allen, R. H.
Braun, J. *See* Saxon, A., Macy, E., Denis, K., Tary-Lehmann, M., Witte, O., and Braun, J.
Braunstein, G. D. *See* Ren, S.-G., and Braunstein, G. D.
Brecher, P. *See* Knowlton, A. A., Brecher, P., and Apstein, C. S.
Brechtel, G. *See* Baron, A. D., Laakso, M., Brechtel, G., and Edelman, S. V.
— *See* Thorburn, A. W., Gumbiner, B., Bulacan, F., Brechtel, G., and Henry, R. R.
Breckon, R. *See* Anderson, R. J., Breckon, R., and Dixon, B. S.
Breitfeld, P. P. *See* Apodaca, G., Bomsel, M., Arden, J., Breitfeld, P. P., Tang, K., and Mostov, K. E.
Brenner, B. M. *See* Beasley, D., Schwartz, J. H., and Brenner, B. M.
Brenner, D. A. *See* Houglum, K., Brenner, D. A., and Chojkier, M.
Brenner, T. *See* Link, H., Olsson, O., Sun, J., Wang, W.-Z., Andersson, G., Ekre, H.-P., Brenner, T., Abramsky, O., and Olsson, T.
Bresalier, R. S., Niv, Y., Byrd, J. C., Duh, Q.-Y., Toribara, N. W., Rockwell, R. W., Dahiya, R., and Kim, Y. S. Mucin production by human colonic carcinoma cells correlates with their metastatic potential in animal models of colon cancer metastasis. 1037.
Breslow, J. L. *See* Brinton, E. A., Eisenberg, S., and Breslow, J. L.
Brewer, M. T. *See* Abe, T., Kobayashi, N., Yoshimura, K., Trapnell, B. C., Kim, H., Hubbard, R. C., Brewer, M. T., Thompson, R. C., and Crystal, R. G.
Breyer, M. D. *See* Hébert, R. L., Jacobson, H. R., and Breyer, M. D.
Briddell, R. A. *See* Antony, A. C., Briddell, R. A., Brandt, J. E., Straneva, J. E., Verma, R. S., Miller, M. E., Kalasinski, L. A., and Hoffman, R.
Briggs, G. M. *See* Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P.
Briggs, J. P. *See* Sawaya, B. P., Weihprecht, H., Campbell, W. R., Lorenz, J. N., Webb, R. C., Briggs, J. P., and Schnermann, J.
Brinckerhoff, C. E. *See* Mitchell, T. I., Coon, C. I., and Brinckerhoff, C. E.
Brinton, E. A., Eisenberg, S., and Breslow, J. L. Increased apo A-I and apo A-II fractional catabolic rate in patients with low high density lipoprotein–cholesterol levels with or without hypertriglyceridemia. 536.
Broekman, M. J. *See* Santos, M. T., Valles, J., Marcus, A. J., Safier, L. B., Broekman, M. J., Islam, N., Ullman, H. L., Eiroa, A. M., and Aznar, J.
Brons, N. H. C. *See* Van der Ploeg, A. T., Kroos, M. A., Willemsen, R., Brons, N. H. C., and Reuser, A. J. J.
Brosnan, C. F. *See* Selmaj, K., Raine, C. S., Cannella, B., and Brosnan, C. F.
Brousse, N. *See* de Saint-Basile, G., Le Deist, F., de Villartay, J.-P., Cerf-Bensussan, N., Journet, O., Brousse, N., Griscelli, C., and Fischer, A.
Brown, E. J. *See* Rosenthal, S. M., Brunetti, A., Brown, E. J., Mamula, P. W., and Goldfine, I. D.
Brown, M. L. *See* Tesfamariam, B., Brown, M. L., and Cohen, R. A.
Brown, T. *See* Beutler, B., and Brown, T.
Bruck, M. E. *See* Cooney, K. A., Nichols, W. C., Bruck, M. E., Bahou, W. F., Shapiro, A. D., Bowie, E. J. W., Gralnick, H. R., and Ginsburg, D.
Brunetti, A. *See* Rosenthal, S. M., Brunetti, A., Brown, E. J., Mamula, P. W., and Goldfine, I. D.
Brunzell, J. D. *See* Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R.
Bucala, R., Tracey, K. J., and Cerami, A. Advanced glycosylation products quench nitric oxide and mediate defective endothelium-dependent vasodilatation in experimental diabetes. 432.
Buchan, A. M. J. Effect of sympathomimetics on gastrin secretion from antral G cells in culture. 1382.
Buchanan, G. R. *See* Jonsson, O. G., Kitchens, R. L., Baer, R. J., Buchanan, G. R., and Smith, R. G.
Budel, L. M. *See* Elbaz, O., Budel, L. M., Hoogerbrugge, H., Touw, I. P., Delwel, R., Mahmoud, L. A., and Löwenberg, B.
Bulacan, F. *See* Thorburn, A. W., Gumbiner, B., Bulacan, F., Brechtel, G., and Henry, R. R.
Burbelo, P. D. *See* Thompson, H. L., Burbelo, P. D., Gabriel, G., Yamada, Y., and Metcalfe, D. D.
Burdach, S., Zessack, N., Dilloo, D., Shatsky, M., Thompson, D., and Levitt, L. Differential regulation of lymphokine production by distinct subunits of the T cell interleukin 2 receptor. 2114.
Burk, C. D., Newman, P. J., Lyman, S., Gill, J., Coller, B. S., and Poncz, M. A deletion in the gene for glycoprotein IIb associated with Glanzmann's thrombasthenia. 270.
Burke, J. F. *See* Wakabayashi, G., Gelfand, J. A., Jung, W. K., Connolly, R. J., Burke, J. F., and Dinarello, C. A.

Burnett, J. C., Jr. *See* Perrella, M. A., Margulies, K. B., Wei, C.-M., Aarhus, L. L., Heublein, D. M., and Burnett, J. C., Jr.
Bussolino, F., Ziche, M., Wang, J. M., Alessi, D., Morbidelli, L., Cremona, O., Bosia, A., Marchisio, P. C., and Mantovani, A. In vitro and in vivo activation of endothelial cells by colony-stimulating factors. 986.
Butcher, E. *See* Smith, C. W., Kishimoto, T. K., Abbassi, O., Hughes, B., Rothlein, R., McIntire, L. V., Butcher, E., and Anderson, D. C.
Buyon, J. P. *See* Chan, E. K. L., Hamel, J. C., Buyon, J. P., and Tan, E. M.
Byrd, J. C. *See* Bresalier, R. S., Niv, Y., Byrd, J. C., Duh, Q.-Y., Toribara, N. W., Rockwell, R. W., Dahiya, R., and Kim, Y. S.

C

Callahan, M., Jr. *See* Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P.
Campbell, C. G. *See* Min, A. D., Johansen, K. L., Campbell, C. G., and Wolkoff, A. W.
Campbell, E. J. *See* Shapiro, S. D., Endicott, S. K., Province, M. A., Pierce, J. A., and Campbell, E. J.
Campbell, I. L., Kay, T. W. H., Oxbrow, L., and Harrison, L. C. Essential role for interferon-γ and interleukin-6 in autoimmune insulin-dependent diabetes in NOD/Wehi mice. 739.
Campbell, W. R. *See* Sawaya, B. P., Weihprecht, H., Campbell, W. R., Lorenz, J. N., Webb, R. C., Briggs, J. P., and Schnermann, J.
Canin, A. *See* Hammond, W. P., Csiba, E., Canin, A., Hockman, H., Souza, L. M., Layton, J. E., and Dale, D. C.
Cannella, B. *See* Selmaj, K., Raine, C. S., Cannella, B., and Brosnan, C. F.
Cao, Y. *See* D'Urso, C. M., Wang, Z., Cao, Y., Tatake, R., Zeff, R. A., and Ferrone, S.
Capra, J. D. *See* Victor, K. D., Randen, I., Thompson, K., Forre, O., Natvig, J. B., Fu, S. M., and Capra, J. D.
Carabello, B. A. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.
Carano, A. *See* Pacifici, R., Carano, A., Santoro, S. A., Rifas, L., Jeffrey, J. J., Malone, J. D., McCracken, R., and Avioli, L. V.
Carey, R. M. *See* El-Dahr, S. S., Gomez, R. A., Gray, M. S., Peach, M. J., Carey, R. M., and Chevalier, R. L.
Carlson, P. L. *See* Sobel, M., McNeill, P. M., Carlson, P. L., Kermode, J. C., Adelman, B., Conroy, R., and Marques, D.
Carlson, S. *See* Madara, J. L., and Carlson, S.
Carretero, O. A. *See* Ito, S., Johnson, C. S., and Carretero, O. A.
Carroll, J. D., Shroff, S., Wirth, P., Halsted, M., and Rajfer, S. I. Arterial mechanical properties in dilated cardiomyopathy. Aging and the response to nitroprusside. 1002.
Carson, D. A., Chen, P. P., and Kipps, T. J. New roles for rheumatoid factor. 379.
— *See* Kekow, J., Wachsman, W., McCutchan, J. A., Gross, W. L., Zachariah, M., Carson, D. A., and Lotz, M.
— *See* Terai, C., Kornbluth, R. S., Pauza, C. D., Richman, D. D., and Carson, D. A.
Cascieri, M. A. *See* Tollefsen, S. E., Heath-Monnig, E., Cascieri, M. A., Bayne, M. L., and Daughaday, W. H.
Castle, V., Varani, J., Fligiel, S., Prochownik, E. V., and Dixit, V. Antisense-mediated reduction in thrombospondin reverses the malignant phenotype of a human squamous carcinoma. 1883.
Cepanec, C. *See* Demaugre, F., Bonnefont, J.-P., Colonna, M., Cepanec, C., Leroux, J.-P., and Saudubray, J.-M.
Cerami, A. *See* Bucala, R., Tracey, K. J., and Cerami, A.
Cerf-Bensussan, N. *See* de Saint-Basile, G., Le Deist, F., de Villartay, J.-P., Cerf-Bensussan, N., Journet, O., Brousse, N., Griscelli, C., and Fischer, A.
Chabrier, P.-E. *See* Adnot, S., Raffestin, B., Eddahibi, S., Braquet, P., and Chabrier, P.-E.
Chambers, D. E. *See* Chu, A., Chambers, D. E., Lin, C.-C., Kuehl, W. D., Palmer, R. M. J., Moncada, S., and Cobb, F. R.
Chan, E. K. L., Hamel, J. C., Buyon, J. P., and Tan, E. M. Molecular definition and sequence motifs of the 52-kD component of human SS-A/Ro autoantigen. 68.
Chan, S. *See* Palefsky, J. M., Winkler, B., Rabanus, J.-P., Clark, C., Chan, S., Nizet, V., and Schoolnik, G. K.
Chang, K. *See* Wolf, B. A., Williamson, J. R., Easom, R. A., Chang, K., Sherman, W. R., and Turk, J.
Chang, P. P. *See* Lee, C.-M., Chang, P. P., Tsai, S.-C., Adamik, R., Price, S. R., Kunz, B. C., Moss, J., Twiddy, E. M., and Holmes, R. K.
Chapman, H. A., Jr. *See* Nusrat, A. R., and Chapman, H. A., Jr.
Charron, M. J. *See* Kahn, B. B., Rossetti, L., Lodish, H. F., and Charron, M. J.
Chatten, J. *See* El-Badry, O. M., Helman, L. J., Chatten, J., Steinberg, S. M., Evans, A. E., and Israel, M. A.
Chatterjee, V. K. K., Nagaya, T., Madison, L. D., Datta, S., Rentoumis, A., and Jameson, J. L. Thyroid hormone resistance syndrome. Inhibition of normal receptor function by mutant thyroid hormone receptors. 1977.
Chavez, J. B. *See* Yoneda, T., Alsina, M. A., Chavez, J. B., Bonewald, L., Nishimura, R., and Mundy, G. R.
Chen, L., Vatner, D. E., Vatner, S. F., Hittinger, L., and Homcy, C. J. Decreased G_{α_s} mRNA levels accompany the fall in G_s and adenylyl cyclase activities in compensated left ventricular hypertrophy. In heart failure, only the impairment in adenylyl cyclase activation progresses. 293.
Chen, M. C., Lee, A. T., and Soll, A. H. Mitogenic response of canine fundic epithelial cells in short-term culture to transforming growth factor α and insulinlike growth factor I. 1716.
Chen, P. P. *See* Carson, D. A., Chen, P. P., and Kipps, T. J.
Cherrington, A. D. *See* Myers, S. R., McGuinness, O. P., Neal, D. W., and Cherrington, A. D.
Chervenak, K. A. *See* Havlir, D. V., Ellner, J. J., Chervenak, K. A., and Boom, W. H.
Cheung, A. L., Krishnan, M., Jaffe, E. A., and Fischetti, V. A. Fibrinogen acts as a bridging molecule in the adherence of *Staphylococcus aureus* to cultured human endothelial cells. 2236.
Chevalier, R. L. *See* El-Dahr, S. S., Gomez, R. A., Gray, M. S., Peach, M. J., Carey, R. M., and Chevalier, R. L.
Chevillard, M. *See* Plotkowski, M. C., Chevillard, M., Pierrot, D., Altemayer, D., Zahm, J. M., Colliot, G., and Puchelle, E.
Chiariello, M. *See* Ambrosio, G., Flaherty, J. T., Duilio, C., Tritto, I., Santoro, G., Elia, P. P., Condorelli, M., and Chiariello, M.
Chojkier, M. *See* Houglum, K., Brenner, D. A., and Chojkier, M.
Christiansen, C. *See* Haarbo, J., Leth-Espensen, P., Stender, S., and Christiansen, C.
Christiansen, M. *See* Hellerstein, M. K., Christiansen, M., Kaempfer, S., Kletke, C., Wu, K., Reid, J. S., Mulligan, K., Hellerstein, N. S., and Shackleton, C. H. L.
Chrousos, G. P. *See* Hurley, D. M., Accili, D., Stratakis, C. A., Karl, M., Vamvakopoulos, N., Rorer, E., Constantine, K., Taylor, S. I., and Chrousos, G. P.
Chu, A., Chambers, D. E., Lin, C.-C., Kuehl, W. D., Palmer, R. M. J., Moncada, S., and Cobb, F. R. Effects of inhibition of nitric oxide formation on basal vasomotion and endothelium-dependent responses of the coronary arteries in awake dogs. 1964.
Ciacci, C. *See* Suemori, S., Ciacci, C., and Podolsky, D. K.
Ciaraldi, T. P. *See* Garvey, W. T., Maianu, L., Hueckstead, T. P., Birnbaum, M. J., Molina, J. M., and Ciaraldi, T. P.
Cibert, C. *See* Ammar, A., Cibert, C., Bertoli, A.-M., Tsilivakos, V., Jasmin, C., and Georgoulias, V.
Cirulli, V. *See* Giordano, E., Bosco, D., Cirulli, V., and Meda, P.
Cistola, D. P., and Small, D. M. Fatty acid distribution in systems modeling the normal and diabetic human circulation. A ^{13}C nuclear magnetic resonance study. 1431.
Clamp, L. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.
Clark, C. *See* Palefsky, J. M., Winkler, B., Rabanus, J.-P., Clark, C., Chan, S., Nizet, V., and Schoolnik, G. K.
Clark, R. A. *See* Heyworth, P. G., Curnutte, J. T., Nauseef, W. M., Volpp, B. D., Pearson, D. W., Rosen, H., and Clark, R. A.
Clift, S. M. *See* Rubin, E. M., Witkowska, H. E., Spangler, E., Curtin, P., Lubin, B. H., Mohandes, N., and Clift, S. M.
Cline, M. *See* Ahuja, H., Bar-Eli, M., Arlin, Z., Advani, S., Allen, S. L., Goldman, J., Snyder, D., Foti, A., and Cline, M.
Clowes, A. W. *See* Golden, M. A., Au, Y. P. T., Kirkman, T. R., Wilcox, J. N., Raines, E. W., Ross, R., and Clowes, A. W.

Cobb, F. R. *See* Chu, A., Chambers, D. E., Lin, C.-C., Kuehl, W. D., Palmer, R. M. J., Moncada, S., and Cobb, F. R.
Cobbold, P. H. *See* Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S.
Codina, J. *See* Gurich, R. W., Codina, J., and DuBose, T. D., Jr.
Cogné, M., Preud'homme, J-L., Bauwens, M., Touchard, G., and Aucouturier, P. Structure of a monoclonal kappa chain of the $V_{\kappa IV}$ subgroup in the kidney and plasma cells in light chain deposition disease. 2186.
Cohen, R. A. *See* Tesfamariam, B., Brown, M. L., and Cohen, R. A.
Cohn, Z. A. *See* McElrath, M. J., Steinman, R. M., and Cohn, Z. A.
Coller, B. S. *See* Burk, C. D., Newman, P. J., Lyman, S., Gill, J., Coller, B. S., and Poncz, M.
Colletta, A. A., Wakefield, L. M., Howell, F. V., Danielpour, D., Baum, M., and Sporn, M. B. The growth inhibition of human breast cancer cells by a novel synthetic progestin involves the induction of transforming growth factor beta. 277.
Collins, J. V. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.
Colliot, G. *See* Plotkowski, M. C., Chevillard, M., Pierrot, D., Altemayer, D., Zahm, J. M., Colliot, G., and Puchelle, E.
Colonna, M. *See* Demaugre, F., Bonnefont, J.-P., Colonna, M., Cepanec, C., Leroux, J.-P., and Saudubray, J.-M.
Condorelli, M. *See* Ambrosio, G., Flaherty, J. T., Duilio, C., Tritto, I., Santoro, G., Elia, P. P., Condorelli, M., and Chiariello, M.
Connolly, R. J. *See* Wakabayashi, G., Gelfand, J. A., Jung, W. K., Connolly, R. J., Burke, J. F., and Dinarello, C. A.
Conrad, D. J. *See* Nadel, J. A., Conrad, D. J., Ueki, I. F., Schuster, A., and Sigal, E.
Conrad, K. P., Barrera, S. A., Friedman, P. A., and Schmidt, V. M. Evidence for attenuation of myo-inositol uptake, phosphoinositide turnover and inositol phosphate production in aortic vasculature of rats during pregnancy. 1700.
Conroy, R. *See* Sobel, M., McNeill, P. M., Carlson, P. L., Kermode, J. C., Adelman, B., Conroy, R., and Marques, D.
Constantine, K. *See* Hurley, D. M., Accili, D., Stratakis, C. A., Karl, M., Vamvakopoulos, N., Rorer, E., Constantine, K., Taylor, S. I., and Chrousos, G. P.
Cooke, J. P. *See* Rossitch, E., Jr., Alexander, E., III, Black, P. M., and Cooke, J. P.
Coon, C. I. *See* Mitchell, T. I., Coon, C. I., and Brinckerhoff, C. E.
Cooney, K. A., Nichols, W. C., Bruck, M. E., Bahou, W. F., Shapiro, A. D., Bowie, E. J. W., Gralnick, H. R., and Ginsburg, D. The molecular defect in type IIB von Willebrand disease. Identification of four potential missense mutations within the putative GpIb binding domain. 1227.
Coor, C., Salmon, R. F., Quigley, R., Marver, D., and Baum, M. Role of adenosine triphosphate (ATP) and NaK ATPase in the inhibition of proximal tubule transport with intracellular cystine loading. 955.
Copelas, L. *See* Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P.
Corkey, B. E., Geschwind, J.-F., Deeney, J. T., Hale, D. E., Douglas, S. D., and Kilpatrick, L. Ca^{2+} responses to interleukin 1 and tumor necrosis factor in cultured human skin fibroblasts. Possible implications for Reye syndrome. 778.
Corrigan, C. J. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.
Corvilain, B. *See* Laurent, E., Van Sande, J., Ludgate, M., Corvilain, B., Rocmans, P., Dumont, J. E., and Mockel, J.
Cotran, R. S. *See* Leung, D. Y. M., Pober, J. S., and Cotran, R. S.
Coulombel, L. *See* Rosemblatt, M., Vuillet-Gaugler, M. H., Leroy, C., and Coulombel, L.
Cox, D. W. *See* Walter, M. A., Gibson, W. T., Ebers, G. C., and Cox, D. W.
Cramer, E. M. *See* Jackson, C. W., Hutson, N. K., Steward, S. A., Saito, N., and Cramer, E. M.
Crane, A. M. *See* Raff, M. L., Crane, A. M., Jansen, R., Ledley, F. D., and Rosenblatt, D. S.
— *See* Wilkemeyer, M. F., Crane, A. M., and Ledley, F. D.
Cremona, O. *See* Bussolino, F., Ziche, M., Wang, J. M., Alessi, D., Morbidelli, L., Cremona, O., Bosia, A., Marchisio, P. C., and Mantovani, A.
Crumpacker, C. *See* Heagy, W., Crumpacker, C., Lopez, P. A., and Finberg, R. W.
Crystal, R. G. *See* Abe, T., Kobayashi, N., Yoshimura, K., Trapnell, B. C., Kim, H., Hubbard, R. C., Brewer, M. T., Thompson, R. C., and Crystal, R. G.
— *See* Ogushi, F., Hubbard, R. C., Vogelmeier, C., Fells, G. A., and Crystal, R. G.
— *See* Vogelmeier, C., Hubbard, R. C., Fells, G. A., Schnebli, H.-P., Thompson, R. C., Fritz, H., and Crystal, R. G.
Csiba, E. *See* Hammond, W. P., Csiba, E., Canin, A., Hockman, H., Souza, L. M., Layton, J. E., and Dale, D. C.
Curnutte, J. T. *See* Heyworth, P. G., Curnutte, J. T., Nauseef, W. M., Volpp, B. D., Pearson, D. W., Rosen, H., and Clark, R. A.
— *See* Woodman, R. C., Ruedi, J. M., Jesaitis, A. J., Okamura, N., Quinn, M. T., Smith, R. M., Curnutte, J. T., and Babior, B. M.
Curtin, P. *See* Rubin, E. M., Witkowska, H. E., Spangler, E., Curtin, P., Lubin, B. H., Mohandes, N., and Clift, S. M.
Curtiss, L. K. *See* Terkeltaub, R. A., Dyer, C. A., Martin, J., and Curtiss, L. K.
Cushman, S. W. *See* Kahn, B. B., Shulman, G. I., DeFronzo, R. A., Cushman, S. W., and Rossetti, L.

D

Dahinden, C. A. *See* Kernen, P., Wymann, M. P., Von Tscharner, V., Deranleau, D. A., Tai, P.-C., Spry, C. J., Dahinden, C. A., and Baggiolini, M.
Dahiya, R. *See* Bresalier, R. S., Niv, Y., Byrd, J. C., Duh, Q.-Y., Toribara, N. W., Rockwell, R. W., Dahiya, R., and Kim, Y. S.
Dai, C. H., Krantz, S. B., Means, R. T., Jr., Horn, S. T., and Gilbert, H. S. Polycythemia vera blood burst-forming units-erythroid are hypersensitive to interleukin-3. 391.
Daikuhara, Y. *See* Strain, A. J., Ismail, T., Tsubouchi, H., Arakaki, N., Hishida, T., Kitamura, N., Daikuhara, Y., and McMaster, P.
Dainiak, N., and Sorba, S. Intracellular regulation of the production and release of human erythroid-directed lymphokines. 213.
Dale, D. C. *See* Hammond, W. P., Csiba, E., Canin, A., Hockman, H., Souza, L. M., Layton, J. E., and Dale, D. C.
Dallapiccola, B. *See* Amselem, S., Sobrier, M.-L., Duquesnoy, P., Rappaport, R., Postel-Vinay, M.-C., Gourmelen, M., Dallapiccola, B., and Goossens, M.
Danielpour, D. *See* Colletta, A. A., Wakefield, L. M., Howell, F. V., Danielpour, D., Baum, M., and Sporn, M. B.
Datta, R. *See* Sherman, M. L., Datta, R., Hallahan, D. E., Weichselbaum, R. R., and Kufe, D. W.
Datta, S. *See* Chatterjee, V. K. K., Nagaya, T., Madison, L. D., Datta, S., Rentoumis, A., and Jameson, J. L.
Daughaday, W. H. *See* Tollefsen, S. E., Heath-Monnig, E., Cascieri, M. A., Bayne, M. L., and Daughaday, W. H.
Davidson, A. *See* Manheimer-Lory, A. J., Davidson, A., Watkins, D., Hannigan, N. R., and Diamond, B. A.
Davidson, N. O. *See* Jacoby, R. F., Llor, X., Teng, B.-B., Davidson, N. O., and Brasitus, T. A.
Davis, A. E., III. *See* Kramer, J., Katz, Y., Rosen, F. S., Davis, A. E., III, and Strunk, R. C.
Davis, J. A. *See* Weinberg, J. M., Davis, J. A., Roeser, N. F., and Venkatachalam, M. A.
Davis, R. C. *See* Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C.
Dayal, Y. *See* Sarin, S. K., Groszmann, R. J., Mosca, P. G., Rojkind, M., Stadecker, M. J., Bhatnagar, R., Reuben, A., and Dayal, Y.
Dayton, J. *See* Turka, L. A., Dayton, J., Sinclair, G., Thompson, C. B., and Mitchell, B. S.
Deckelbaum, L. I. *See* Young, L. H., McNulty, P. H., Morgan, C., Deckelbaum, L. I., Zaret, B. L., and Barrett, E. J.
Deeb, G. M. *See* Schwaiger, M., Hutchins, G. D., Kalff, V., Rosenspire, K., Haka, M. S., Mallette, S., Deeb, G. M., Abrams, G. D., and Wieland, D.
Deeney, J. T. *See* Corkey, B. E., Geschwind, J.-F., Deeney, J. T., Hale, D. E., Douglas, S. D., and Kilpatrick, L.

DeFronzo, R. A. *See* Groop, L. C., Bonadonna, R. C., Shank, M., Petrides, A. S., and DeFronzo, R. A.
— *See* Kahn, B. B., Shulman, G. I., DeFronzo, R. A., Cushman, S. W., and Rossetti, L.
DeGroot, L. J. *See* Takeda, K., Balzano, S., Sakurai, A., DeGroot, L. J., and Refetoff, S.
Delaunay, J. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.
Delespesse, G. *See* Wu, C. Y., Sarfati, M., Heusser, C., Fournier, S., Rubio-Trujillo, M., Peleman, R., and Delespesse, G.
Delp, C. *See* Nash, S., Parkos, C., Nusrat, A., Delp, C., and Madara, J. L.
— *See* Shapiro, M., Matthews, J., Hecht, G., Delp, C., and Madara, J. L.
Delwel, R. *See* Elbaz, O., Budel, L. M., Hoogerbrugge, H., Touw, I. P., Delwel, R., Mahmoud, L. A., and Löwenberg, B.
Demaugre, F., Bonnefont, J.-P., Colonna, M., Cepanec, C., Leroux, J.-P., and Saudubray, J.-M. Infantile form of carnitine palmitoyltransferase II deficiency with hepatomuscular symptoms and sudden death. Physiopathological approach to carnitine palmitoyltransferase II deficiencies. 859.
Demer, L. L. *See* Liao, F., Berliner, J. A., Mehrabian, M., Navab, M., Demer, L. L., Lusis, A. J., and Fogelman, A. M.
Denis, K. *See* Saxon, A., Macy, E., Denis, K., Tary-Lehmann, M., Witte, O., and Braun, J.
Deranleau, D. A. *See* Kernen, P., Wymann, M. P., Von Tscharner, V., Deranleau, D. A., Tai, P.-C., Spry, C. J., Dahinden, C. A., and Baggiolini, M.
de Saint-Basile, G., Le Deist, F., de Villartay, J.-P., Cerf-Bensussan, N., Journet, O., Brousse, N., Griscelli, C., and Fischer, A. Restricted heterogeneity of T lymphocytes in combined immunodeficiency with hypereosinophilia (Omenn's syndrome). 1352.
Desrochers, P. E., Jeffrey, J. J., and Weiss, S. J. Interstitial collagenase (matrix metalloproteinase-1) expresses serpinase activity. 2258.
Deuel, T. F. *See* Mustoe, T. A., Pierce, G. F., Morishima, C., and Deuel, T. F.
de Villartay, J.-P. *See* de Saint-Basile, G., Le Deist, F., de Villartay, J.-P., Cerf-Bensussan, N., Journet, O., Brousse, N., Griscelli, C., and Fischer, A.
Dewald, B. *See* Seitz, M., Dewald, B., Gerber, N., and Baggiolini, M.
Diamond, B. *See* Grayzel, A., Solomon, A., Aranow, C., and Diamond, B.
Diamond, B. A. *See* Manheimer-Lory, A. J., Davidson, A., Watkins, D., Hannigan, N. R., and Diamond, B. A.
Diamond, R. D., Lyman, C. A., and Wysong, D. R. Disparate effects of interferon-γ and tumor necrosis factor-α on early neutrophil respiratory burst and fungicidal responses to *Candida albicans* hyphae in vitro. 711.
Diaz, L. A. *See* Giudice, G. J., Squiquera, H. L., Elias, P. M., and Diaz, L. A.
Di Giovine, F. S., Malawista, S. E., Thornton, E., and Duff, G. W. Urate crystals stimulate production of tumor necrosis factor alpha from human blood monocytes and synovial cells. Cytokine mRNA and protein kinetics, and cellular distribution. 1375.
Dilloo, D. *See* Burdach, S., Zessack, N., Dilloo, D., Shatsky, M., Thompson, D., and Levitt, L.
Dinarello, C. A. *See* Wakabayashi, G., Gelfand, J. A., Jung, W. K., Connolly, R. J., Burke, J. F., and Dinarello, C. A.
Divine, M. *See* Kanavaros, P., Farcet, J.-P., Gaulard, P., Haioun, C., Divine, M., Le Couedic, J.-P., Lefranc, M. P., and Reyes, F.
Dixit, V. *See* Castle, V., Varani, J., Fligiel, S., Prochownik, E. V., and Dixit, V.
Dixon, B. S. *See* Anderson, R. J., Breckon, R., and Dixon, B. S.
Dobbins, J. W. *See* Sundaram, U., Knickelbein, R. G., and Dobbins, J. W.
Douglas, S. D. *See* Corkey, B. E., Geschwind, J.-F., Deeney, J. T., Hale, D. E., Douglas, S. D., and Kilpatrick, L.
Drinkwater, D. C. *See* Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M.
DuBose, T. D., Jr. *See* Gurich, R. W., Codina, J., and DuBose, T. D., Jr.
Ducluzeau, M.-T. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.
Dudeja, P. K., Wali, R. K., Klitzke, A., Sitrin, M. D., and Brasitus, T. A. Correction of enhanced Na^+-H^+ exchange of rat small intestinal brush-border membranes in streptozotocin-induced diabetes by insulin or 1,25-dihydroxycholecalciferol. 1755.
Duff, G. W. *See* Di Giovine, F. S., Malawista, S. E., Thornton, E., and Duff, G. W.
Duffy, S. F. *See* Kipps, T. J., and Duffy, S. F.
Duh, Q.-Y. *See* Bresalier, R. S., Niv, Y., Byrd, J. C., Duh, Q.-Y., Toribara, N. W., Rockwell, R. W., Dahiya, R., and Kim, Y. S.
Duilio, C. *See* Ambrosio, G., Flaherty, J. T., Duilio, C., Tritto, I., Santoro, G., Elia, P. P., Condorelli, M., and Chiariello, M.
Dumont, J. E. *See* Laurent, E., Van Sande, J., Ludgate, M., Corvilain, B., Rocmans, P., Dumont, J. E., and Mockel, J.
Dunn, J. A. *See* Lyons, T. J., Bailie, K. E., Dyer, D. G., Dunn, J. A., and Baynes, J. W.
DuPont, H. L. *See* Matsui, S. M., Kim, J. P., Greenberg, H. B., Su, W., Sun, Q., Johnson, P. C., DuPont, H. L., Oshiro, L. S., and Reyes, G. R.
Dupont, J. *See* White, P. C., Dupont, J., New, M. I., Leiberman, E., Hochberg, Z., and Rösler, A.
Duquesnoy, P. *See* Amselem, S., Sobrier, M.-L., Duquesnoy, P., Rappaport, R., Postel-Vinay, M.-C., Gourmelen, M., Dallapiccola, B., and Goossens, M.
Durham, S. R. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.
D'Urso, C. M., Wang, Z., Cao, Y., Tatake, R., Zeff, R. A., and Ferrone, S. Lack of HLA class I antigen expression by cultured melanoma cells FO-1 due to a defect in B_2m gene expression. 284.
Dyer, C. A. *See* Terkeltaub, R. A., Dyer, C. A., Martin, J., and Curtiss, L. K.
Dyer, D. G. *See* Lyons, T. J., Bailie, K. E., Dyer, D. G., Dunn, J. A., and Baynes, J. W.
Dzau, V. J. *See* Naftilan, A. J., Zuo, W. M., Inglefinger, J., Ryan, T. J., Jr., Pratt, R. E., and Dzau, V. J.

E

Easom, R. A. *See* Wolf, B. A., Williamson, J. R., Easom, R. A., Chang, K., Sherman, W. R., and Turk, J.
Eastman, A. *See* Parker, R. J., Eastman, A., Bostick-Bruton, F., and Reed, E.
Eaton, D. L. *See* Zioncheck, T. F., Powell, L. M., Rice, G. C., Eaton, D. L., and Lawn, R. M.
Ebers, G. C. *See* Walter, M. A., Gibson, W. T., Ebers, G. C., and Cox, D. W.
Edberg, J. C., Salmon, J. E., Whitlow, M., and Kimberly, R. P. Preferential expression of human $Fc\gamma RIII_{PMN}$ (CD16) in paroxysmal nocturnal hemoglobinuria. Discordant expression of glycosyl phosphatidylinositol-linked proteins. 58.
Eddahibi, S. *See* Adnot, S., Raffestin, B., Eddahibi, S., Braquet, P., and Chabrier, P.-E.
Edelman, S. V. *See* Baron, A. D., Laakso, M., Brechtel, G., and Edelman, S. V.
Edgington, T. S. *See* Fan, S.-T., and Edgington, T. S.
Egashira, K., Morgan, K. G., and Morgan, J. P. Effects of cocaine on excitation-contraction coupling of aortic smooth muscle from the ferret. 1322.
Einarsson, K. *See* Ericsson, S., Eriksson, M., Vitols, S., Einarsson, K., Berglund, L., and Angelin, B.
Eiroa, A. M. *See* Santos, M. T., Valles, J., Marcus, A. J., Safier, L. B., Broekman, M. J., Islam, N., Ullman, H. L., Eiroa, A. M., and Aznar, J.
Eisenberg, S. *See* Brinton, E. A., Eisenberg, S., and Breslow, J. L.
Ekre, H.-P. *See* Link, H., Olsson, O., Sun, J., Wang, W.-Z., Andersson, G., Ekre, H.-P., Brenner, T., Abramsky, O., and Olsson, T.
El-Badry, O. M., Helman, L. J., Chatten, J., Steinberg, S. M., Evans, A. E., and Israel, M. A. Insulin-like growth factor II-mediated proliferation of human neuroblastoma. 648.
Elbaz, O., Budel, L. M., Hoogerbrugge, H., Touw, I. P., Delwel, R., Mahmoud, L. A., and Löwenberg, B. Tumor necrosis factor

downregulates granulocyte-colony–stimulating factor receptor expression on human acute myeloid leukemia cells and granulocytes. 838.
El-Dahr, S. S., Gomez, R. A., Gray, M. S., Peach, M. J., Carey, R. M., and Chevalier, R. L. Renal nerves modulate renin gene expression in the developing rat kidney with ureteral obstruction. 800.
Elfman, F. *See* Perez, H. D., Kelly, E., Elfman, F., Armitage, G., and Winkler, J.
Elia, P. P. *See* Ambrosio, G., Flaherty, J. T., Duilio, C., Tritto, I., Santoro, G., Elia, P. P., Condorelli, M., and Chiariello, M.
Elias, P. M. *See* Giudice, G. J., Squiquera, H. L., Elias, P. M., and Diaz, L. A.
— *See* Proksch, E., Feingold, K. R., Mao-Qiang, M., and Elias, P. M.
Ellis, M. *See* Keung, E. C., Toll, L., Ellis, M., and Jensen, R. A.
Ellner, J. J. *See* Havlir, D. V., Ellner, J. J., Chervenak, K. A., and Boom, W. H.
Emancipator, S. N. *See* White, R. B., Lowrie, L., Stork, J. E., Iskandar, S. S., Lamm, M. E., and Emancipator, S. N.
Emoto, T. *See* Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J.
Endicott, S. K. *See* Shapiro, S. D., Endicott, S. K., Province, M. A., Pierce, J. A., and Campbell, E. J.
Endo, F. *See* Mitsubuchi, H., Nobukuni, Y., Akaboshi, I., Indo, Y., Endo, F., and Matsuda, I.
— *See* Nobukuni, Y., Mitsubuchi, H., Akaboshi, I., Indo, Y., Endo, F., Yoshioka, A., and Matsuda, I.
— *See* Tanoue, A., Endo, F., Akaboshi, I., Oono, T., Arata, J., and Matsuda, I.
English, B. K. *See* Lewis, D. B., Yu, C. C., Meyer, J., English, B. K., Kahn, S. J., and Wilson, C. B.
Ericsson, S., Eriksson, M., Vitols, S., Einarsson, K., Berglund, L., and Angelin, B. Influence of age on the metabolism of plasma low density lipoproteins in healthy males. 591.
Eriksson, M. *See* Ericsson, S., Eriksson, M., Vitols, S., Einarsson, K., Berglund, L., and Angelin, B.
Evans, A. E. *See* El-Badry, O. M., Helman, L. J., Chatten, J., Steinberg, S. M., Evans, A. E., and Israel, M. A.
Everson, G. T., McKinley, C., and Kern, F., Jr. Mechanisms of gallstone formation in women. Effects of exogenous estrogen (premarin) and dietary cholesterol on hepatic lipid metabolism. 237.
Eyre, D. R., Weis, M. A., and Moskowitz, R. W. Cartilage expression of a type II collagen mutation in an inherited form of osteoarthritis associated with a mild chondrodysplasia. 357.

F

Fadda, G. Z., Hajjar, S. M., Perna, A. F., Zhou, X.-J., Lipson, L. G., and Massry, S. G. On the mechanism of impaired insulin secretion in chronic renal failure. 255.
Fairbanks, R. *See* Bakris, G. L., Fairbanks, R., and Traish, A. M.
Fan, S.-T., and Edgington, T. S. Coupling of the adhesive receptor CD11b/CD18 to functional enhancement of effector macrophage tissue factor response. 50.
Fann, J. I. *See* Yun, K. L., Niczyporuk, M. A., Sarris, G. E., Fann, J. I., and Miller, D. C.
Farber, H. W. *See* Zimmerman, L. H., Levine, R. A., and Farber, H. W.
Farcet, J.-P. *See* Kanavaros, P., Farcet, J.-P., Gaulard, P., Haioun, C., Divine, M., Le Couedic, J.-P., Lefranc, M. P., and Reyes, F.
Fasano, A. *See* Savarino, S. J., Fasano, A., Robertson, D. C., and Levine, M. M.
Feingold, K. R. *See* Proksch, E., Feingold, K. R., Mao-Qiang, M., and Elias, P. M.
Feldman, M. D. *See* Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P.
Fells, G. A. *See* Ogushi, F., Hubbard, R. C., Vogelmeier, C., Fells, G. A., and Crystal, R. G.
— *See* Vogelmeier, C., Hubbard, R. C., Fells, G. A., Schnebli, H.-P., Thompson, R. C., Fritz, H., and Crystal, R. G.
Fernández-Checa, J. C., García-Ruiz, C., Ookhtens, M., and Kaplowitz, N. Impaired uptake of glutathione by hepatic mitochondria from chronic ethanol-fed rats. Tracer kinetic studies in vitro and in vivo and susceptibility to oxidant stress. 397.
Ferrone, S. *See* D'Urso, C. M., Wang, Z., Cao, Y., Tatake, R., Zeff, R. A., and Ferrone, S.
Fields, B. N. *See* Matoba, Y., Sherry, B., Fields, B. N., and Smith, T. W.
Finberg, R. W. *See* Heagy, W., Crumpacker, C., Lopez, P. A., and Finberg, R. W.
Fischer, A. *See* de Saint-Basile, G., Le Deist, F., de Villartay, J.-P., Cerf-Bensussan, N., Journet, O., Brousse, N., Griscelli, C., and Fischer, A.
Fischetti, V. A. *See* Cheung, A. L., Krishnan, M., Jaffe, E. A., and Fischetti, V. A.
Fisher, E. A. *See* Bass, J., Fisher, E. A., Prack, M. M., Williams, D. L., and Marsh, J. B.
Flaherty, J. T. *See* Ambrosio, G., Flaherty, J. T., Duilio, C., Tritto, I., Santoro, G., Elia, P. P., Condorelli, M., and Chiariello, M.
Fligiel, S. *See* Castle, V., Varani, J., Fligiel, S., Prochownik, E. V., and Dixit, V.
Fogelman, A. M. *See* Liao, F., Berliner, J. A., Mehrabian, M., Navab, M., Demer, L. L., Lusis, A. J., and Fogelman, A. M.
— *See* Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M.
Forre, O. *See* Victor, K. D., Randen, I., Thompson, K., Forre, O., Natvig, J. B., Fu, S. M., and Capra, J. D.
Foti, A. *See* Ahuja, H., Bar-Eli, M., Arlin, Z., Advani, S., Allen, S. L., Goldman, J., Snyder, D., Foti, A., and Cline, M.
Fournier, S. *See* Wu, C. Y., Sarfati, M., Heusser, C., Fournier, S., Rubio-Trujillo, M., Peleman, R., and Delespesse, G.
Fox, R. J. *See* Brady, L. S., Whitfield, H. J., Jr., Fox, R. J., Gold, P. W., and Herkenham, M.
Fox, R. M. *See* Tay, D. L. M., Bhathal, P. S., and Fox, R. M.
Frank, M. B. *See* Itoh, K., Itoh, Y., and Frank, M. B.
Freeman, G. L., and Colston, J. T. Correction. 755.
Freeman, C. J. *See* Lew, V. L., Freeman, C. J., Ortiz, O. E., and Bookchin, R. M.
Freidenberg, G. R., Suter, S. L., Henry, R. R., Reichart, D., and Olefsky, J. M. In vivo stimulation of the insulin receptor kinase in human skeletal muscle. Correlation with insulin-stimulated glucose disposal during euglycemic clamp studies. 2222.
Friedman, P. A. *See* Conrad, K. P., Barrera, S. A., Friedman, P. A., and Schmidt, V. M.
Fritz, H. *See* Vogelmeier, C., Hubbard, R. C., Fells, G. A., Schnebli, H.-P., Thompson, R. C., Fritz, H., and Crystal, R. G.
Fu, S. M. *See* Victor, K. D., Randen, I., Thompson, K., Forre, O., Natvig, J. B., Fu, S. M., and Capra, J. D.
Funke, H., Von Eckardstein, A., Pritchard, P. H., Karas, M., Albers, J. J., and Assmann, G. A frameshift mutation in the human apolipoprotein A-I gene causes high density lipoprotein deficiency, partial lecithin: cholesterol-acyltransferase deficiency, and corneal opacities. 371.
— *See* Von Eckardstein, A., Holz, H., Sandkamp, M., Weng, W., Funke, H., and Assmann, G.

G

Gabriel, G. *See* Thompson, H. L., Burbelo, P. D., Gabriel, G., Yamada, Y., and Metcalfe, D. D.
Gacad, M. A., and Adams, J. S. Endogenous blockade of 1,25-dihydroxyvitamin D-receptor binding in new world primate cells. 996.
Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S. Endothelin action in rat liver. Receptors, free Ca^{2+} oscillations, and activation of glycogenolysis. 133.
Galli, S. J. *See* Perdue, M. H., Masson, S., Wershil, B. K., and Galli, S. J.
— *See* Wershil, B. K., Wang, Z.-S., Gordon, J. R., and Galli, S. J.
Gallup, M. W. *See* Jany, B. H., Gallup, M. W., Yan, P-S, Gum, J. R., Kim, Y. S., and Basbaum, C. B.
García-Ruiz, C. *See* Fernández-Checa, J. C., García-Ruiz, C., Ookhtens, M., and Kaplowitz, N.

Gardner, J. P. *See* Maher, E., Bardequez, A., Gardner, J. P., Goldsmith, L., Weiss, G., Mascarina, M., and Aviv, A.
Garvey, W. T., Maianu, L., Huecksteadt, T. P., Birnbaum, M. J., Molina, J. M., and Ciaraldi, T. P. Pretranslational suppression of a glucose transporter protein causes insulin resistance in adipocytes from patients with non–insulin-dependent diabetes mellitus and obesity. 1072.
Gaulard, P. *See* Kanavaros, P., Farcet, J.-P., Gaulard, P., Haioun, C., Divine, M., Le Couedic, J.-P., Lefranc, M. P., and Reyes, F.
Gazit, A. *See* Padeh, S., Levitzki, A., Gazit, A., Mills, G. B., and Roifman, C. M.
Gelfand, J. A. *See* Wakabayashi, G., Gelfand, J. A., Jung, W. K., Connolly, R. J., Burke, J. F., and Dinarello, C. A.
Gennari, F. J. *See* Santella, R. N., Maddox, D. A., and Gennari, F. J.
Georgoulias, V. *See* Ammar, A., Cibert, C., Bertoli, A.-M., Tsilivakos, V., Jasmin, C., and Georgoulias, V.
Gerber, N. *See* Seitz, M., Dewald, B., Gerber, N., and Baggiolini, M.
Geschwind, J.-F. *See* Corkey, B. E., Geschwind, J.-F., Deeney, J. T., Hale, D. E., Douglas, S. D., and Kilpatrick, L.
Ghanem, A. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.
Gharaee-Kermani, M. *See* Phan, S. H., Gharaee-Kermani, M., Wolber, F., and Ryan, U. S.
Gibson, W. T. *See* Walter, M. A., Gibson, W. T., Ebers, G. C., and Cox, D. W.
Giebel, L. B., Tripathi, R. K., King, R. A., and Spritz, R. A. A tyrosinase gene missense mutation in temperature-sensitive type I oculocutaneous albinism. A human homologue to the Siamese cat and the Himalayan mouse. 1119.
Gilbert, H. S. *See* Dai, C. H., Krantz, S. B., Means, R. T., Jr., Horn, S. T., and Gilbert, H. S.
Gill, J. *See* Burk, C. D., Newman, P. J., Lyman, S., Gill, J., Coller, B. S., and Poncz, M.
Ginsberg, J. *See* Weitz, J. I., Leslie, B., and Ginsberg, J.
Ginsburg, D. *See* Cooney, K. A., Nichols, W. C., Bruck, M. E., Bahou, W. F., Shapiro, A. D., Bowie, E. J. W., Gralnick, H. R., and Ginsburg, D.
Giordano, E., Bosco, D., Cirulli, V., and Meda, P. Repeated glucose stimulation reveals distinct and lasting secretion patterns of individual rat pancreatic B cells. 2178.
Giudice, G. J., Squiquera, H. L., Elias, P. M., and Diaz, L. A. Identification of two collagen domains within the bullous pemphigoid autoantigen, BP180. 734.
Gleich, G. J. *See* Gundel, R. H., Letts, L. G., and Gleich, G. J.
Gold, P. W. *See* Brady, L. S., Whitfield, H. J., Jr., Fox, R. J., Gold, P. W., and Herkenham, M.
Goldberg, D. I., Beltz, W. F., and Pittman, R. C. Evaluation of pathways for the cellular uptake of high density lipoprotein cholesterol esters in rabbits. 331.
Golden, M. A., Au, Y. P. T., Kirkman, T. R., Wilcox, J. N., Raines, E. W., Ross, R., and Clowes, A. W. Platelet-derived growth factor activity and mRNA expression in healing vascular grafts in baboons. Association in vivo of platelet-derived growth factor mRNA and protein with cellular proliferation. 406.
Goldfine, I. D. *See* Rosenthal, S. M., Brunetti, A., Brown, E. J., Mamula, P. W., and Goldfine, I. D.
Goldman, J. *See* Ahuja, H., Bar-Eli, M., Arlin, Z., Advani, S., Allen, S. L., Goldman, J., Snyder, D., Foti, A., and Cline, M.
Goldsmith, L. *See* Maher, E., Bardequez, A., Gardner, J. P., Goldsmith, L., Weiss, G., Mascarina, M., and Aviv, A.
Gollan, J. L. *See* Brass, C. A., Narciso, J., and Gollan, J. L.
Gollapudi, S. *See* Gupta, S., Kim, J., and Gollapudi, S.
Goltzman, D. *See* Kremer, R., Karaplis, A. C., Henderson, J., Gulliver, W., Banville, D., Hendy, G. N., and Goltzman, D.
Gomez, R. A. *See* El-Dahr, S. S., Gomez, R. A., Gray, M. S., Peach, M. J., Carey, R. M., and Chevalier, R. L.
Gonias, S. L. *See* LaMarre, J., Hayes, M. A., Wollenberg, G. K., Hussaini, I., Hall, S. W., and Gonias, S. L.
Goossens, M. *See* Amselem, S., Sobrier, M.-L., Duquesnoy, P., Rappaport, R., Postel-Vinay, M.-C., Gourmelen, M., Dallapiccola, B., and Goossens, M.
Gordon, J. R. *See* Wershil, B. K., Wang, Z.-S., Gordon, J. R., and Galli, S. J.
Gordon, K. *See* Johnson, R. J., Iida, H., Alpers, C. E., Majesky, M. W., Schwartz, S. M., Pritzl, P., Gordon, K., and Gown, A. M.
Gorelick, F. S. *See* Leach, S. D., Modlin, I. M., Scheele, G. A., and Gorelick, F. S.
Goud, B. *See* Maridonneau-Parini, I., Yang, C.-Z., Bornens, M., and Goud, B.
Gourmelen, M. *See* Amselem, S., Sobrier, M.-L., Duquesnoy, P., Rappaport, R., Postel-Vinay, M.-C., Gourmelen, M., Dallapiccola, B., and Goossens, M.
Gown, A. M. *See* Johnson, R. J., Iida, H., Alpers, C. E., Majesky, M. W., Schwartz, S. M., Pritzl, P., Gordon, K., and Gown, A. M.
Grainick, H. *See* Hsiao, L. L., Peltonen, J., Jaakkola, S., Grainick, H., and Uitto, J.
Gralnick, H. R. *See* Cooney, K. A., Nichols, W. C., Bruck, M. E., Bahou, W. F., Shapiro, A. D., Bowie, E. J. W., Gralnick, H. R., and Ginsburg, D.
Granger, D. N. *See* Perry, M. A., and Granger, D. N.
Grant, C. S. *See* Khosla, S., Patel, V. M., Hay, I. D., Schaid, D. J., Grant, C. S., Van Heerden, J. A., and Thibodeau, S. N.
Gray, M. S. *See* El-Dahr, S. S., Gomez, R. A., Gray, M. S., Peach, M. J., Carey, R. M., and Chevalier, R. L.
Grayzel, A., Solomon, A., Aranow, C., and Diamond, B. Antibodies elicited by pneumococcal antigens bear an anti-DNA–associated idiotype. 842.
Green, A. M. *See* Lublin, D. M., Thompson, E. S., Green, A. M., Levene, C., and Telen, M. J.
Greenberg, H. B. *See* Matsui, S. M., Kim, J. P., Greenberg, H. B., Su, W., Sun, Q., Johnson, P. C., DuPont, H. L., Oshiro, L. S., and Reyes, G. R.
Greene, W. C. *See* Smith, M. R., and Greene, W. C.
Greenwald, J. E. *See* Ritter, D., Needleman, P., and Greenwald, J. E.
Griffin, J. E. *See* Marcelli, M., Zoppi, S., Grino, P. B., Griffin, J. E., Wilson, J. D., and McPhaul, M. J.
— *See* McPhaul, M. J., Marcelli, M., Tilley, W. D., Griffin, J. E., Isidro-Gutierrez, R. F., and Wilson, J. D.
Grimaud, J.-A. *See* Lortat-Jacob, H., Kleinman, H. K., and Grimaud, J.-A.
Grimminger, F. *See* Suttorp, N., Polley, M., Seybold, J., Schnittler, H., Seeger, W., Grimminger, F., and Aktories, K.
Grino, P. B. *See* Marcelli, M., Zoppi, S., Grino, P. B., Griffin, J. E., Wilson, J. D., and McPhaul, M. J.
Griscelli, C. *See* de Saint-Basile, G., Le Deist, F., de Villartay, J.-P., Cerf-Bensussan, N., Journet, O., Brousse, N., Griscelli, C., and Fischer, A.
Groner, Y. *See* White, C. W., Avraham, K. B., Shanley, P. F., and Groner, Y.
Gronich, J. H. *See* Nakamura, H., Nemenoff, R. A., Gronich, J. H., and Bonventre, J. V.
Groop, L. C., Bonadonna, R. C., Shank, M., Petrides, A. S., and DeFronzo, R. A. Role of free fatty acids and insulin in determining free fatty acid and lipid oxidation in man. 83.
Gross, W. L. *See* Kekow, J., Wachsman, W., McCutchan, J. A., Gross, W. L., Zachariah, M., Carson, D. A., and Lotz, M.
Grossman, W. *See* Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P.
Groszmann, R. J. *See* Sarin, S. K., Groszmann, R. J., Mosca, P. G., Rojkind, M., Stadecker, M. J., Bhatnagar, R., Reuben, A., and Dayal, Y.
Grundy, S. M. *See* Jialal, I., and Grundy, S. M.
Gubernator, K. *See* Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R.
Guerre-Millo, M. *See* Hainault, I., Guerre-Millo, M., Guichard, C., and Lavau, M.
Guetarni, D. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.
Guhlmann, A. *See* Lehr, H. A., Guhlmann, A., Nolte, D., Keppler, D., and Messmer, K.
Guichard, C. *See* Hainault, I., Guerre-Millo, M., Guichard, C., and Lavau, M.
Gulliver, W. *See* Kremer, R., Karaplis, A. C., Henderson, J., Gulliver, W., Banville, D., Hendy, G. N., and Goltzman, D.
Gum, J. R. *See* Jany, B. H., Gallup, M. W., Yan, P-S, Gum, J. R., Kim, Y. S., and Basbaum, C. B.
Gumbiner, B. *See* Thorburn, A. W., Gumbiner, B., Bulacan, F., Brechtel, G., and Henry, R. R.

Gundel, R. H., Letts, L. G., and Gleich, G. J. Human eosinophil major basic protein induces airway constriction and airway hyperresponsiveness in primates. 1470.
Gupta, S., Kim, J., and Gollapudi, S. Reversal of daunorubicin resistance in P388/ADR cells by itraconazole. 1467.
Gurich, R. W., Codina, J., and DuBose, T. D., Jr. A potential role for guanine nucleotide-binding protein in the regulation of endosomal proton transport. 1547.
Gustafson, K. S., Vercellotti, G. M., Bendel, C. M., and Hostetter, M. K. Molecular mimicry in *Candida albicans*. Role of an integrin analogue in adhesion of the yeast to human endothelium. 1896.
Guyre, P. M. *See* Allen, J. B., Wong, H. L., Guyre, P. M., Simon, G. L., and Wahl, S. M.
Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P. Diastolic dysfunction in hypertrophic cardiomyopathy. Effect on active force generation during systole. 1023.

H

Haarbo, J., Leth-Espensen, P., Stender, S., and Christiansen, C. Estrogen monotherapy and combined estrogen-progestogen replacement therapy attenuate aortic accumulation of cholesterol in ovariectomized cholesterol-fed rabbits. 1274.
Hahn, S. M. *See* Samuni, A., Winkelsberg, D., Pinson, A., Hahn, S. M., Mitchell, J. B., and Russo, A.
Hainault, I., Guerre-Millo, M., Guichard, C., and Lavau, M. Differential regulation of adipose tissue glucose transporters in genetic obesity (fatty rat). Selective increase in the adipose cell/muscle glucose transporter (GLUT 4) expression. 1127.
Haioun, C. *See* Kanavaros, P., Farcet, J.-P., Gaulard, P., Haioun, C., Divine, M., Le Couedic, J.-P., Lefranc, M. P., and Reyes, F.
Hajjar, S. M. *See* Fadda, G. Z., Hajjar, S. M., Perna, A. F., Zhou, X.-J., Lipson, L. G., and Massry, S. G.
Haka, M. S. *See* Schwaiger, M., Hutchins, G. D., Kalff, V., Rosenspire, K., Haka, M. S., Mallette, S., Deeb, G. M., Abrams, G. D., and Wieland, D.
Hale, D. E. *See* Corkey, B. E., Geschwind, J.-F., Deeney, J. T., Hale, D. E., Douglas, S. D., and Kilpatrick, L.
Hall, S. W. *See* LaMarre, J., Hayes, M. A., Wollenberg, G. K., Hussaini, I., Hall, S. W., and Gonias, S. L.
Hallahan, D. E. *See* Sherman, M. L., Datta, R., Hallahan, D. E., Weichselbaum, R. R., and Kufe, D. W.
Halsted, M. *See* Carroll, J. D., Shroff, S., Wirth, P., Halsted, M., and Rajfer, S. I.
Hamada, Y. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.
Hamel, J. C. *See* Chan, E. K. L., Hamel, J. C., Buyon, J. P., and Tan, E. M.
Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B. Expression of mRNA for interleukin-5 in mucosal bronchial biopsies from asthma. 1541.
Hamm, L. L. *See* Weiner, I. D., and Hamm, L. L.
Hammerman, M. R. *See* Rogers, S. A., Miller, S. B., and Hammerman, M. R.
Hammond, W. P., Csiba, E., Canin, A., Hockman, H., Souza, L. M., Layton, J. E., and Dale, D. C. Chronic neutropenia. A new canine model induced by human granulocyte colony-stimulating factor. 704.
Handa, M. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.
Hannigan, N. R. *See* Manheimer-Lory, A. J., Davidson, A., Watkins, D., Hannigan, N. R., and Diamond, B. A.
Hanoune, J. *See* Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S.
Harrison, L. C. *See* Campbell, I. L., Kay, T. W. H., Oxbrow, L., and Harrison, L. C.
Harrison, V. *See* Levine, D. Z., Iacovitti, M., and Harrison, V.
Hassan, M. F. *See* Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R.
Havel, R. J. *See* Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C.
Havlir, D. V., Ellner, J. J., Chervenak, K. A., and Boom, W. H. Selective expansion of human $\gamma\Delta$ T cells by monocytes infected with live *Mycobacterium tuberculosis*. 729.
Hay, I. D. *See* Khosla, S., Patel, V. M., Hay, I. D., Schaid, D. J., Grant, C. S., Van Heerden, J. A., and Thibodeau, S. N.
Hayashi, M., Yamaji, Y., Iyori, M., Kitajima, W., and Saruta, T. Effect of isoproterenol on intracellular pH of the intercalated cells in the rabbit cortical collecting ducts. 1153.
Hayden, M. R. *See* Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R.
Hayes, M. A. *See* LaMarre, J., Hayes, M. A., Wollenberg, G. K., Hussaini, I., Hall, S. W., and Gonias, S. L.
Heagy, W., Crumpacker, C., Lopez, P. A., and Finberg, R. W. Inhibition of immune functions by antiviral drugs. 1916.
Heath-Monnig, E. *See* Tollefsen, S. E., Heath-Monnig, E., Cascieri, M. A., Bayne, M. L., and Daughaday, W. H.
Hébert, R. L., Jacobson, H. R., and Breyer, M. D. Prostaglandin E_2 inhibits sodium transport in rabbit cortical collecting duct by increasing intracellular calcium. 1992.
Hecht, G. *See* Shapiro, M., Matthews, J., Hecht, G., Delp, C., and Madara, J. L.
Hellerstein, M. K., Christiansen, M., Kaempfer, S., Kletke, C., Wu, K., Reid, J. S., Mulligan, K., Hellerstein, N. S., and Shackleton, C. H. L. Measurement of de novo hepatic lipogenesis in humans using stable isotopes. 1841.
Hellerstein, N. S. *See* Hellerstein, M. K., Christiansen, M., Kaempfer, S., Kletke, C., Wu, K., Reid, J. S., Mulligan, K., Hellerstein, N. S., and Shackleton, C. H. L.
Helman, L. J. *See* El-Badry, O. M., Helman, L. J., Chatten, J., Steinberg, S. M., Evans, A. E., and Israel, M. A.
Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R. Amino acid substitution ($Ile^{194} \rightarrow Thr$) in exon 5 of the lipoprotein lipase gene causes lipoprotein lipase deficiency in three unrelated probands. Support for a multicentric origin. 2005.
Henderson, J. *See* Kremer, R., Karaplis, A. C., Henderson, J., Gulliver, W., Banville, D., Hendy, G. N., and Goltzman, D.
Hendy, G. N. *See* Kremer, R., Karaplis, A. C., Henderson, J., Gulliver, W., Banville, D., Hendy, G. N., and Goltzman, D.
Henry, R. R. *See* Friedenberg, G. R., Suter, S. L., Henry, R. R., Reichart, D., and Olefsky, J. M.
— *See* Thorburn, A. W., Gumbiner, B., Bulacan, F., Brechtel, G., and Henry, R. R.
Hercend, T. *See* Moebius, U., Herrmann, F., Hercend, T., and Meuer, S. C.
Herkenham, M. *See* Brady, L. S., Whitfield, H. J., Jr., Fox, R. J., Gold, P. W., and Herkenham, M.
Herndier, B. G. *See* Pulliam, L., Herndier, B. G., Tang, N. M., and McGrath, M. S.
Herrmann, F. *See* Moebius, U., Herrmann, F., Hercend, T., and Meuer, S. C.
Heublein, D. M. *See* Perrella, M. A., Margulies, K. B., Wei, C.-M., Aarhus, L. L., Heublein, D. M., and Burnett, J. C., Jr.
Heusser, C. *See* Wu, C. Y., Sarfati, M., Heusser, C., Fournier, S., Rubio-Trujillo, M., Peleman, R., and Delespesse, G.
Heyworth, P. G., Curnutte, J. T., Nauseef, W. M., Volpp, B. D., Pearson, D. W., Rosen, H., and Clark, R. A. Neutrophil nicotinamide adenine dinucleotide phosphate oxidase assembly. Translocation of p47-*phox* and p67-*phox* requires interaction between p47-*phox* and cytochrome b_{558}. 352.
Hiramoto, M. *See* Satoh, K., Imaizumi, T., Kawamura, Y., Yoshida, H., Hiramoto, M., Takamatsu, S., and Takamatsu, M.
Hirano, T., Saluja, A., Ramarao, P., Lerch, M. M., Saluja, M., and Steer, M. L. Apical secretion of lysosomal enzymes in rabbit pancreas occurs via a secretagogue regulated pathway and is increased after pancreatic duct obstruction. 865.
Hirata, Y. *See* Shichiri, M., Hirata, Y., Nakajima, T., Ando, K., Imai, T., Yanagisawa, M., Masaki, T., and Marumo, F.

Hirschberg, R., Kopple, J. D., Blantz, R. C., and Tucker, B. J. Effects of recombinant human insulin-like growth factor I on glomerular dynamics in the rat. 1200.
Hishida, T. *See* Strain, A. J., Ismail, T., Tsubouchi, H., Arakaki, N., Hishida, T., Kitamura, N., Daikuhara, Y., and McMaster, P.
Hittinger, L. *See* Chen, L., Vatner, D. E., Vatner, S. F., Hittinger, L., and Homcy, C. J.
Hobbs, H. H. *See* Lackner, C., Boerwinkle, E., Leffert, C. C., Rahmig, T., and Hobbs, H. H.
Hochberg, Z. *See* White, P. C., Dupont, J., New, M. I., Leiberman, E., Hochberg, Z., and Rösler, A.
Hockman, H. *See* Hammond, W. P., Csiba, E., Canin, A., Hockman, H., Souza, L. M., Layton, J. E., and Dale, D. C.
Hoffman, R. *See* Antony, A. C., Briddell, R. A., Brandt, J. E., Straneva, J. E., Verma, R. S., Miller, M. E., Kalasinski, L. A., and Hoffman, R.
Hoffman, R. P. *See* Anderson, E. A., Hoffman, R. P., Balon, T. W., Sinkey, C. A., and Mark, A. L.
Holmes, L. A. *See* Atkinson, M. A., Holmes, L. A., Scharp, D. W., Lacy, P. E., and Maclaren, N. K.
Holmes, R. K. *See* Lee, C.-M., Chang, P. P., Tsai, S.-C., Adamik, R., Price, S. R., Kunz, B. C., Moss, J., Twiddy, E. M., and Holmes, R. K.
Holst, J. J. *See* Ørskov, C., Jeppesen, J., Madsbad, S., and Holst, J. J.
Holz, H. *See* Von Eckardstein, A., Holz, H., Sandkamp, M., Weng, W., Funke, H., and Assmann, G.
Homcy, C. J. *See* Chen, L., Vatner, D. E., Vatner, S. F., Hittinger, L., and Homcy, C. J.
Hoogerbrugge, H. *See* Elbaz, O., Budel, L. M., Hoogerbrugge, H., Touw, I. P., Delwel, R., Mahmoud, L. A., and Löwenberg, B.
Horio, T. *See* Kohno, M., Yasunari, K., Yokokawa, K., Murakawa, K.-i., Horio, T., and Takeda, T.
Horn, S. T. *See* Dai, C. H., Krantz, S. B., Means, R. T., Jr., Horn, S. T., and Gilbert, H. S.
Horwitz, M. A. *See* Blander, S. J., and Horwitz, M. A.
Hosoda, K. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.
Hostetter, M. K. *See* Gustafson, K. S., Vercellotti, G. M., Bendel, C. M., and Hostetter, M. K.
Hou, X. *See* Vicaut, E., Hou, X., Payen, D., Bousseau, A., and Tedgui, A.
Hough, G. P. *See* Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M.
Houglum, K., Brenner, D. A., and Chojkier, M. *d*-α-Tocopherol inhibits collagen α_1(I) gene expression in cultured human fibroblasts. Modulation of constitutive collagen gene expression by lipid peroxidation. 2230.
Howell, F. V. *See* Colletta, A. A., Wakefield, L. M., Howell, F. V., Danielpour, D., Baum, M., and Sporn, M. B.
Hsiao, L. L., Peltonen, J., Jaakkola, S., Grainick, H., and Uitto, J. Plasticity of integrin expression by nerve-derived connective tissue cells. Human Schwann cells, perineurial cells, and fibroblasts express markedly different patterns of β1 integrins during nerve development, neoplasia, and in vitro. 811.
Huarte, J. *See* Sappino, A.-P., Huarte, J., Vassalli, J.-D., and Belin, D.
Hubbard, R. C. *See* Abe, T., Kobayashi, N., Yoshimura, K., Trapnell, B. C., Kim, H., Hubbard, R. C., Brewer, M. T., Thompson, R. C., and Crystal, R. G.
— *See* Ogushi, F., Hubbard, R. C., Vogelmeier, C., Fells, G. A., and Crystal, R. G.
— *See* Vogelmeier, C., Hubbard, R. C., Fells, G. A., Schnebli, H.-P., Thompson, R. C., Fritz, H., and Crystal, R. G.
Hubl, S. T. *See* Welty, F. K., Hubl, S. T., Pierotti, V. R., and Young, S. G.
Hueckstedt, T. P. *See* Garvey, W. T., Maianu, L., Hueckstedt, T. P., Birnbaum, M. J., Molina, J. M., and Ciaraldi, T. P.
Hughes, B. *See* Smith, C. W., Kishimoto, T. K., Abbassi, O., Hughes, B., Rothlein, R., McIntire, L. V., Butcher, E., and Anderson, D. C.
Hultcrantz, R., Bissell, D. M., and Roll, F. J. Iron mediates production of a neutrophil chemoattractant by rat hepatocytes metabolizing ethanol. 45.
Hurley, D. M., Accili, D., Stratakis, C. A., Karl, M., Vamvakopoulos, N., Rorer, E., Constantine, K., Taylor, S. I., and Chrousos, G. P. Point mutation causing a single amino acid substitution in the hormone binding domain of the glucocorticoid receptor in familial glucocorticoid resistance. 680.
Hussaini, I. *See* LaMarre, J., Hayes, M. A., Wollenberg, G. K., Hussaini, I., Hall, S. W., and Gonias, S. L.
Hutchins, G. D. *See* Schwaiger, M., Hutchins, G. D., Kalff, V., Rosenspire, K., Haka, M. S., Mallette, S., Deeb, G. M., Abrams, G. D., and Wieland, D.
Hutson, N. K. *See* Jackson, C. W., Hutson, N. K., Steward, S. A., Saito, N., and Cramer, E. M.

I

Iacovitti, M. *See* Levine, D. Z., Iacovitti, M., and Harrison, V.
Iida, H. *See* Johnson, R. J., Iida, H., Alpers, C. E., Majesky, M. W., Schwartz, S. M., Pritzl, P., Gordon, K., and Gown, A. M.
Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M. The role of von Willebrand factor and fibrinogen in platelet aggregation under varying shear stress. 1234.
Imai, T. *See* Shichiri, M., Hirata, Y., Nakajima, T., Ando, K., Imai, T., Yanagisawa, M., Masaki, T., and Marumo, F.
Imaizumi, T. *See* Satoh, K., Imaizumi, T., Kawamura, Y., Yoshida, H., Hiramoto, M., Takamatsu, S., and Takamatsu, M.
Imura, H. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.
Indo, Y. *See* Mitsubuchi, H., Nobukuni, Y., Akaboshi, I., Indo, Y., Endo, F., and Matsuda, I.
— *See* Nobukuni, Y., Mitsubuchi, H., Akaboshi, I., Indo, Y., Endo, F., Yoshioka, A., and Matsuda, I.
Infante, R. *See* Pessah, M., Benlian, P., Beucler, I., Loux, N., Schmitz, J., Junien, C., and Infante, R.
Inglefinger, J. *See* Naftilan, A. J., Zuo, W. M., Inglefinger, J., Ryan, T. J., Jr., Pratt, R. E., and Dzau, V. J.
Inouye, K. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.
Ishihara, K. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.
Isidro-Gutierrez, R. F. *See* McPhaul, M. J., Marcelli, M., Tilley, W. D., Griffin, J. E., Isidro-Gutierrez, R. F., and Wilson, J. D.
Iskandar, S. S. *See* White, R. B., Lowrie, L., Stork, J. E., Iskandar, S. S., Lamm, M. E., and Emancipator, S. N.
Islam, N. *See* Santos, M. T., Valles, J., Marcus, A. J., Safier, L. B., Broekman, M. J., Islam, N., Ullman, H. L., Eiroa, A. M., and Aznar, J.
Ismail, T. *See* Strain, A. J., Ismail, T., Tsubouchi, H., Arakaki, N., Hishida, T., Kitamura, N., Daikuhara, Y., and McMaster, P.
Israel, M. A. *See* El-Badry, O. M., Helman, L. J., Chatten, J., Steinberg, S. M., Evans, A. E., and Israel, M. A.
Itagaki, I. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.
Ito, M., Mori, Y., Oiso, Y., and Saito, H. A single base substitution in the coding region for neurophysin II associated with familial central diabetes insipidus. 725.
Ito, S., Johnson, C. S., and Carretero, O. A. Modulation of angiotensin II-induced vasoconstriction by endothelium-derived relaxing factor in the isolated microperfused rabbit afferent arteriole. 1656.
Itoh, K., Itoh, Y., and Frank, M. B. Protein heterogeneity in the human Ro/SSA ribonucleoproteins. The 52- and 60-kD Ro/SSA autoantigens are encoded by separate genes. 177.
Itoh, Y. *See* Itoh, K., Itoh, Y., and Frank, M. B.
Ives, H. E. *See* Mitsuhashi, T., Morris, R. C., Jr., and Ives, H. E.
Iyori, M. *See* Hayashi, M., Yamaji, Y., Iyori, M., Kitajima, W., and Saruta, T.

J

Jaakkola, S. *See* Hsiao, L. L., Peltonen, J., Jaakkola, S., Grainick, H., and Uitto, J.

Jackson, C. W., Hutson, N. K., Steward, S. A., Saito, N., and Cramer, E. M. Platelets of the Wistar Furth rat have reduced levels of alpha-granule proteins. An animal model resembling gray platelet syndrome. 1985.

Jacobson, H. R. *See* Hébert, R. L., Jacobson, H. R., and Breyer, M. D.

Jacoby, R. F., Llor, X., Teng, B.-B., Davidson, N. O., and Brasitus, T. A. Mutations in the K-*ras* oncogene induced by 1,2-dimethylhydrazine in preneoplastic and neoplastic rat colonic mucosa. 624.

Jaffe, E. A. *See* Cheung, A. L., Krishnan, M., Jaffe, E. A., and Fischetti, V. A.

Jalkanen, S., Joensuu, H., Söderström, K.-O., and Klemi, P. Lymphocyte homing and clinical behavior of non-Hodgkin's lymphoma. 1835.

Jameson, J. L. *See* Chatterjee, V. K. K., Nagaya, T., Madison, L. D., Datta, S., Rentoumis, A., and Jameson, J. L.

Jamieson, J. D. *See* Pinter, E., Peyman, J. A., Snow, K., Jamieson, J. D., and Warshaw, J. B.

Jansen, R. *See* Raff, M. L., Crane, A. M., Jansen, R., Ledley, F. D., and Rosenblatt, D. S.

Jany, B. H., Gallup, M. W., Yan, P-S, Gum, J. R., Kim, Y. S., and Basbaum, C. B. Human bronchus and intestine express the same mucin gene. 77.

Jasin, H. E., and Taurog, J. D. Mechanisms of disruption of the articular cartilage surface in inflammation. Neutrophil elastase increases availability of collagen type II epitopes for binding with antibody on the surface of articular cartilage. 1531.

Jasmin, C. *See* Ammar, A., Cibert, C., Bertoli, A.-M., Tsilivakos, V., Jasmin, C., and Georgoulias, V.

Jeevanandam, M., Young, D. H., and Schiller, W. R. Obesity and the metabolic response to severe multiple trauma in man. 262.

Jeffery, P. K. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.

Jeffrey, J. J. *See* Desrochers, P. E., Jeffrey, J. J., and Weiss, S. J.

— *See* Pacifici, R., Carano, A., Santoro, S. A., Rifas, L., Jeffrey, J. J., Malone, J. D., McCracken, R., and Avioli, L. V.

Jelinek, D. F. *See* Splawski, J. B., Jelinek, D. F., and Lipsky, P. E.

Jensen, M. D. Regulation of forearm lipolysis in different types of obesity. In vivo evidence for adipocyte heterogeneity. 187.

Jensen, R. A. *See* Keung, E. C., Toll, L., Ellis, M., and Jensen, R. A.

Jeppesen, J. *See* Ørskov, C., Jeppesen, J., Madsbad, S., and Holst, J. J.

Jesaitis, A. J. *See* Woodman, R. C., Ruedi, J. M., Jesaitis, A. J., Okamura, N., Quinn, M. T., Smith, R. M., Curnutte, J. T., and Babior, B. M.

Jialal, I., and Grundy, S. M. Preservation of the endogenous antioxidants in low density lipoprotein by ascorbate but not probucol during oxidative modification. 597.

Joensuu, H. *See* Jalkanen, S., Joensuu, H., Söderström, K.-O., and Klemi, P.

Johansen, K. L. *See* Min, A. D., Johansen, K. L., Campbell, C. G., and Wolkoff, A. W.

Johnson, C. S. *See* Ito, S., Johnson, C. S., and Carretero, O. A.

Johnson, P. C. *See* Matsui, S. M., Kim, J. P., Greenberg, H. B., Su, W., Sun, Q., Johnson, P. C., DuPont, H. L., Oshiro, L. S., and Reyes, G. R.

Johnson, R. J., Iida, H., Alpers, C. E., Majesky, M. W., Schwartz, S. M., Pritzl, P., Gordon, K., and Gown, A. M. Expression of smooth muscle cell phenotype by rat mesangial cells in immune complex nephritis. α-Smooth muscle actin is a marker of mesangial cell proliferation. 847.

Jonsson, O. G., Kitchens, R. L., Baer, R. J., Buchanan, G. R., and Smith, R. G. Rearrangements of the *tal-1* locus as clonal markers for T cell acute lymphoblastic leukemia. 2029.

Jougasaki, M. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.

Jouneaux, C. *See* Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S.

Journet, O. *See* de Saint-Basile, G., Le Deist, F., de Villartay, J.-P., Cerf-Bensussan, N., Journet, O., Brousse, N., Griscelli, C., and Fischer, A.

Jung, W. K. *See* Wakabayashi, G., Gelfand, J. A., Jung, W. K., Connolly, R. J., Burke, J. F., and Dinarello, C. A.

Junien, C. *See* Pessah, M., Benlian, P., Beucler, I., Loux, N., Schmitz, J., Junien, C., and Infante, R.

Juvonen, T. *See* Niemelä, O., Juvonen, T., and Parkkila, S.

K

Kaempfer, S. *See* Hellerstein, M. K., Christiansen, M., Kaempfer, S., Kletke, C., Wu, K., Reid, J. S., Mulligan, K., Hellerstein, N. S., and Shackleton, C. H. L.

Kahn, B. B., Rossetti, L., Lodish, H. F., and Charron, M. J. Decreased in vivo glucose uptake but normal expression of GLUT1 and GLUT4 in skeletal muscle of diabetic rats. 2197.

—, Shulman, G. I., DeFronzo, R. A., Cushman, S. W., Rossetti, L. Normalization of blood glucose in diabetic rats with phlorizin treatment reverses insulin-resistant glucose transport in adipose cells without restoring glucose transporter gene expression. 561.

Kahn, C. R. *See* Meyerovitch, J., Rothenberg, P., Shechter, Y., Bonner-Weir, S., and Kahn, C. R.

Kahn, S. E. *See* McCulloch, D. K., Kahn, S. E., Schwartz, M. W., Koerker, D. J., and Palmer, J. P.

Kahn, S. J. *See* Lewis, D. B., Yu, C. C., Meyer, J., English, B. K., Kahn, S. J., and Wilson, C. B.

Kajumo, F. *See* Nierodzik, M. L., Plotkin, A., Kajumo, F., and Karpatkin, S.

Kalasinski, L. A. *See* Antony, A. C., Briddell, R. A., Brandt, J. E., Straneva, J. E., Verma, R. S., Miller, M. E., Kalasinski, L. A., and Hoffman, R.

Kalff, V. *See* Schwaiger, M., Hutchins, G. D., Kalff, V., Rosenspire, K., Haka, M. S., Mallette, S., Deeb, G. M., Abrams, G. D., and Wieland, D.

Kamata, T. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.

Kambayashi, Y. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.

Kamen, B. A., Smith, A. K., and Anderson, R. G. W. The folate receptor works in tandem with a probenecid-sensitive carrier in MA104 cells in vitro. 1442.

Kanavaros, P., Farcet, J.-P., Gaulard, P., Haioun, C., Divine, M., Le Couedic, J.-P., Lefranc, M. P., and Reyes, F. Recombinative events of the T cell antigen receptor δ gene in peripheral T cell lymphomas. 666.

Kanazawa, S. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.

Kane, J. P. *See* Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C.

Kang, A. H. *See* Ballou, L. R., Barker, S. C., Postlethwaite, A. E., and Kang, A. H.

Kang, J.-H. *See* Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J.

Kaplowitz, N. *See* Fernández-Checa, J. C., García-Ruiz, C., Ookhtens, M., and Kaplowitz, N.

Karaplis, A. C. *See* Kremer, R., Karaplis, A. C., Henderson, J., Gulliver, W., Banville, D., Hendy, G. N., and Goltzman, D.

Karas, M. *See* Funke, H., Von Eckardstein, A., Pritchard, P. H., Karas, M., Albers, J. J., and Assmann, G.

Karl, M. *See* Hurley, D. M., Accili, D., Stratakis, C. A., Karl, M., Vamvakopoulos, N., Rorer, E., Constantine, K., Taylor, S. I., and Chrousos, G. P.

Karpatkin, S. *See* Nierodzik, M. L., Plotkin, A., Kajumo, F., and Karpatkin, S.

Kastally, R. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, J., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.

Katz, Y. *See* Kramer, J., Katz, Y., Rosen, F. S., Davis, A. E., III, and Strunk, R. C.

Kawai, Y. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.

Kawamura, Y. *See* Satoh, K., Imaizumi, T., Kawamura, Y., Yoshida, H., Hiramoto, M., Takamatsu, S., and Takamatsu, M.

Kawano, K. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.
Kay, A. B. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.
Kay, T. W. H. *See* Campbell, I. L., Kay, T. W. H., Oxbrow, L., and Harrison, L. C.
Kekow, J., Wachsman, W., McCutchan, J. A., Gross, W. L., Zachariah, M., Carson, D. A., and Lotz, M. Transforming growth factor-β and suppression of humoral immune responses in HIV infection. 1010.
Kelly, E. *See* Perez, H. D., Kelly, E., Elfman, F., Armitage, G., and Winkler, J.
Kelly, R. A., Eid, H., Krämer, B. K., O'Neill, M., Liang, B. T., Reers, M., and Smith, T. W. Correction. 1479.
Kernen, P., Wymann, M. P., Von Tscharner, V., Deranleau, D. A., Tai, P.-C., Spry, C. J., Dahinden, C. A., and Baggiolini, M. Shape changes, exocytosis, and cytosolic free calcium changes in stimulated human eosinophils. 2012.
Keppler, D. *See* Lehr, H. A., Guhlmann, A., Nolte, D., Keppler, D., and Messmer, K.
Kermode, J. C. *See* Sobel, M., McNeill, P. M., Carlson, P. L., Kermode, J. C., Adelman, B., Conroy, R., and Marques, D.
Kern, F., Jr. *See* Everson, G. T., McKinley, C., and Kern, F., Jr.
Keung, E. C., Toll, L., Ellis, M., and Jensen, R. A. L-type cardiac calcium channels in doxorubicin cardiomyopathy in rats morphological, biochemical, and functional correlations. 2108.
Khoo, J. C. *See* Rosenfeld, M. E., Khoo, J. C., Miller, E., Parthasarathy, S., Palinski, W., and Witztum, J. L.
Khosla, S., Patel, V. M., Hay, I. D., Schaid, D. J., Grant, C. S., Van Heerden, J. A., and Thibodeau, S. N. Loss of heterozygosity suggests multiple genetic alterations in pheochromocytomas and medullary thyroid carcinomas. 1691.
Kida, Y., Nyomba, B. L., Bogardus, C., and Mott, D. M. Defective insulin response of cyclic adenosine monophosphate-dependent protein kinase in insulin-resistant humans. 673.
Kilpatrick, L. *See* Corkey, B. E., Geschwind, J.-F., Deeney, J. T., Hale, D. E., Douglas, S. D., and Kilpatrick, L.
Kim, H. *See* Abe, T., Kobayashi, N., Yoshimura, K., Trapnell, B. C., Kim, H., Hubbard, R. C., Brewer, M. T., Thompson, R. C., and Crystal, R. G.
Kim, J. *See* Gupta, S., Kim, J., and Gollapudi, S.
Kim, J. P. *See* Matsui, S. M., Kim, J. P., Greenberg, H. B., Su, W., Sun, Q., Johnson, P. C., DuPont, H. L., Oshiro, L. S., and Reyes, G. R.
Kim, Y. S. *See* Bresalier, R. S., Niv, Y., Byrd, J. C., Duh, Q.-Y., Toribara, N. W., Rockwell, R. W., Dahiya, R., and Kim, Y. S.
— *See* Jany, B. H., Gallup, M. W., Yan, P-S, Gum, J. R., Kim, Y. S., and Basbaum, C. B.
Kimberly, R. P. *See* Edberg, J. C., Salmon, J. E., Whitlow, M., and Kimberly, R. P.
King, R. A., Townsend, D., Oetting, W., Summers, C. G., Olds, D. P., White, J. G., and Spritz, R. A. Temperature-sensitive tyrosinase associated with peripheral pigmentation in oculocutaneous albinism. 1046.
— *See* Giebel, L. B., Tripathi, R. K., King, R. A., and Spritz, R. A.
Kipps, T. J., and Duffy, S. F. Relationship of the CD5 B cell to human tonsillar lymphocytes that express autoantibody-associated cross-reactive idiotypes. 2087.
— *See* Carson, D. A., Chen, P. P., and Kipps, T. J.
Kirkman, T. R. *See* Golden, M. A., Au, Y. P. T., Kirkman, T. R., Wilcox, J. N., Raines, E. W., Ross, R., and Clowes, A. W.
Kishimoto, T. K. *See* Smith, C. W., Kishimoto, T. K., Abbassi, O., Hughes, B., Rothlein, R., McIntire, L. V., Butcher, E., and Anderson, D. C.
Kitajima, W. *See* Hayashi, M., Yamaji, Y., Iyori, M., Kitajima, W., and Saruta, T.
Kitamura, N. *See* Strain, A. J., Ismail, T., Tsubouchi, H., Arakaki, N., Hishida, T., Kitamura, N., Daikuhara, Y., and McMaster, P.
Kitchens, R. L. *See* Jonsson, O. G., Kitchens, R. L., Baer, R. J., Buchanan, G. R., and Smith, R. G.
Kitoh, Y. *See* Matsuo, M., Masumura, T., Nishio, H., Nakajima, T., Kitoh, Y., Takumi, T., Koga, J., and Nakamura, H.
Kleihauer, E. *See* Kulozik, A. E., Bail, S., Bellan-Koch, A., Bartram, C. R., Kohne, E., and Kleihauer, E.
Kleinman, H. K. *See* Lortat-Jacob, H., Kleinman, H. K., and Grimaud, J.-A.
Klemi, P. *See* Jalkanen, S., Joensuu, H., Söderström, K.-O., and Klemi, P.
Kletke, C. *See* Hellerstein, M. K., Christiansen, M., Kaempfer, S., Kletke, C., Wu, K., Reid, J. S., Mulligan, K., Hellerstein, N. S., and Shackleton, C. H. L.
Klitzke, A. *See* Dudeja, P. K., Wali, R. K., Klitzke, A., Sitrin, M. D., and Brasitus, T. A.
Knickelbein, R. G. *See* Sundaram, U., Knickelbein, R. G., and Dobbins, J. W.
Knowlton, A. A., Brecher, P., and Apstein, C. S. Rapid expression of heat shock protein in the rabbit after brief cardiac ischemia. 139.
Kobayashi, H. *See* Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J.
Kobayashi, J. *See* Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C.
Kobayashi, N. *See* Abe, T., Kobayashi, N., Yoshimura, K., Trapnell, B. C., Kim, H., Hubbard, R. C., Brewer, M. T., Thompson, R. C., and Crystal, R. G.
Koerker, D. J. *See* McCulloch, D. K., Kahn, S. E., Schwartz, M. W., Koerker, D. J., and Palmer, J. P.
Koga, J. *See* Matsuo, M., Masumura, T., Nishio, H., Nakajima, T., Kitoh, Y., Takumi, T., Koga, J., and Nakamura, H.
Kohne, E. *See* Kulozik, A. E., Bail, S., Bellan-Koch, A., Bartram, C. R., Kohne, E., and Kleihauer, E.
Kohno, M., Yasunari, K., Yokokawa, K., Murakawa, K.-i., Horio, T., and Takeda, T. Inhibition by atrial and brain natriuretic peptides of endothelin-1 secretion after stimulation with angiotensin II and thrombin of cultured human endothelial cells. 1999.
Kojima, Y. *See* Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J.
Kopple, J. D. *See* Hirschberg, R., Kopple, J. D., Blantz, R. C., and Tucker, B. J.
Kornbluth, R. S. *See* Terai, C., Kornbluth, R. S., Pauza, C. D., Richman, D. D., and Carson, D. A.
Kovacs, J. A. *See* Lundgren, B., Lipschik, G. Y., and Kovacs, J. A.
Kowalska, M. A. *See* Tuszynski, G. P., and Kowalska, M. A.
Kramer, J., Katz, Y., Rosen, F. S., Davis, A. E., III, and Strunk, R. C. Synthesis of C1 inhibitor in fibroblasts from patients with type I and type II hereditary angioneurotic edema. 1614.
Krantz, S. B. *See* Dai, C. H., Krantz, S. B., Means, R. T., Jr., Horn, S. T., and Gilbert, H. S.
Krapf, R., Pearce, D., Lynch, C., Xi, X.-P., Reudelhuber, T. L., Pouysségur, J., and Rector, F. C., Jr. Expression of rat renal Na/H antiporter mRNA levels in response to respiratory and metabolic acidosis. 747.
Kremer, R., Karaplis, A. C., Henderson, J., Gulliver, W., Banville, D., Hendy, G. N., and Goltzman, D. Regulation of parathyroid hormone-like peptide in cultured normal human keratinocytes. Effect of growth factors and 1,25 dihydroxyvitamin D_3 on gene expression and secretion. 884.
Krishnan, M. *See* Cheung, A. L., Krishnan, M., Jaffe, E. A., and Fischetti, V. A.
Kroos, M. A. *See* Van der Ploeg, A. T., Kroos, M. A., Willemsen, R., Brons, N. H. C., and Reuser, A. J. J.
Kuehl, W. D. *See* Chu, A., Chambers, D. E., Lin, C.-C., Kuehl, W. D., Palmer, R. M. J., Moncada, S., and Cobb, F. R.
Kufe, D. W. *See* Sherman, M. L., Datta, R., Hallahan, D. E., Weichselbaum, R. R., and Kufe, D. W.
Kulozik, A. E., Bail, S., Bellan-Koch, A., Bartram, C. R., Kohne, E., and Kleihauer, E. The proximal element of the β globin locus control region is not functionally required in vivo. 2142.
Kunz, B. C. *See* Lee, C.-M., Chang, P. P., Tsai, S.-C., Adamik, R., Price, S. R., Kunz, B. C., Moss, J., Twiddy, E. M., and Holmes, R. K.
Kupper, T. S. Correction. 753.
— *See* Mizutani, H., Black, R., and Kupper, T. S.

L

Laakso, M. *See* Baron, A. D., Laakso, M., Brechtel, G., and Edelman, S. V.

Lackner, C., Boerwinkle, E., Leffert, C. C., Rahmig, T., and Hobbs, H. H. Molecular basis of apolipoprotein (a) isoform size heterogeneity as revealed by pulsed-field gel electrophoresis. 2153.

Lacy, P. E. *See* Atkinson, M. A., Holmes, L. A., Scharp, D. W., Lacy, P. E., and Maclaren, N. K.

Lages, B., Shattil, S. J., Bainton, D. F., and Weiss, H. J. Decreased content and surface expression of α-granule membrane protein GMP-140 in one of two types of platelet $\alpha\delta$ storage pool deficiency. 919.

Laks, H. *See* Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M.

LaMarre, J., Hayes, M. A., Wollenberg, G. K., Hussaini, I., Hall, S. W., and Gonias, S. L. An α_2-macroglobulin receptor-dependent mechanism for the plasma clearance of transforming growth factor-β1 in mice. 39.

Lambert, S. *See* Bennett, V., and Lambert, S.

Lamm, M. E. *See* White, R. B., Lowrie, L., Stork, J. E., Iskandar, S. S., Lamm, M. E., and Emancipator, S. N.

Lane, J. T. *See* Oppenheimer, J. H., Schwartz, H. L., Lane, J. T., and Thompson, M. P.

Laurent, E., Van Sande, J., Ludgate, M., Corvilain, B., Rocmans, P., Dumont, J. E., and Mockel, J. Unlike thyrotropin, thyroid-stimulating antibodies do not activate phospholipase C in human thyroid slices. 1634.

Lavau, M. *See* Hainault, I., Guerre-Millo, M., Guichard, C., and Lavau, M.

Lawn, R. M. *See* Zioncheck, T. F., Powell, L. M., Rice, G. C., Eaton, D. L., and Lawn, R. M.

Layton, J. E. *See* Hammond, W. P., Csiba, E., Canin, A., Hockman, H., Souza, L. M., Layton, J. E., and Dale, D. C.

Leach, S. D., Modlin, I. M., Scheele, G. A., and Gorelick, F. S. Intracellular activation of digestive zymogens in rat pancreatic acini. Stimulation by high doses of cholecystokinin. 362.

Le Couedic, J.-P. *See* Kanavaros, P., Farcet, J.-P., Gaulard, P., Haioun, C., Divine, M., Le Couedic, J.-P., Lefranc, M. P., and Reyes, F.

Le Deist, F. *See* de Saint-Basile, G., Le Deist, F., de Villartay, J.-P., Cerf-Bensussan, N., Journet, O., Brousse, N., Griscelli, C., and Fischer, A.

Ledley, F. D. *See* Raff, M. L., Crane, A. M., Jansen, R., Ledley, F. D., and Rosenblatt, D. S.

— *See* Wilkemeyer, M. F., Crane, A. M., and Ledley, F. D.

Lee, A. T. *See* Chen, M. C., Lee, A. T., and Soll, A. H.

Lee, C.-M., Chang, P. P., Tsai, S.-C., Adamik, R., Price, S. R., Kunz, B. C., Moss, J., Twiddy, E. M., and Holmes, R. K. Activation of *Escherichia coli* heat-labile enterotoxins by native and recombinant adenosine diphosphate–ribosylation factors, 20-kD guanine nucleotide–binding proteins. 1780.

Lee, G. *See* Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C.

Leffert, C. C. *See* Lackner, C., Boerwinkle, E., Leffert, C. C., Rahmig, T., and Hobbs, H. H.

Lefort, J. *See* Vannier, E., Lefort, J., Lellouch-Tubiana, A., Terlain, B., and Vargaftig, B. B.

Lefranc, M. P. *See* Kanavaros, P., Farcet, J.-P., Gaulard, P., Haioun, C., Divine, M., Le Couedic, J.-P., Lefranc, M. P., and Reyes, F.

Lehr, H. A., Guhlmann, A., Nolte, D., Keppler, D., and Messmer, K. Leukotrienes as mediators in ischemia-reperfusion injury in a microcirculation model in the hamster. 2036.

Leiberman, E. *See* White, P. C., Dupont, J., New, M. I., Leiberman, E., Hochberg, Z., and Rösler, A.

Lellouch-Tubiana, A. *See* Vannier, E., Lefort, J., Lellouch-Tubiana, A., Terlain, B., and Vargaftig, B. B.

Lemire, J. M., and Archer, D. C. 1,25-Dihydroxyvitamin D_3 prevents the in vivo induction of murine experimental autoimmune encephalomyelitis. 1103.

Lerch, M. M. *See* Hirano, T., Saluja, A., Ramarao, P., Lerch, M. M., Saluja, M., and Steer, M. L.

— *See* Saluja, M., Saluja, A., Lerch, M. M., and Steer, M. L.

Leroux, J.-P. *See* Demaugre, F., Bonnefont, J.-P., Colonna, M., Cepanec, C., Leroux, J.-P., and Saudubray, J.-M.

Leroy, C. *See* Rosemblatt, M., Vuillet-Gaugler, M. H., Leroy, C., and Coulombel, L.

Leslie, B. *See* Weitz, J. I., Leslie, B., and Ginsberg, J.

Leth-Espensen, P. *See* Haarbo, J., Leth-Espensen, P., Stender, S., and Christiansen, C.

Letts, L. G. *See* Gundel, R. H., Letts, L. G., and Gleich, G. J.

Leung, D. Y. M., Pober, J. S., and Cotran, R. S. Expression of endothelial-leukocyte adhesion molecule-1 in elicited late phase allergic reactions. 1805.

Levene, C. *See* Lublin, D. M., Thompson, E. S., Green, A. M., Levene, C., and Telen, M. J.

Levine, D. Z., Iacovitti, M., and Harrison, V. Bicarbonate secretion in vivo by rat distal tubules during alkalosis induced by dietary chloride restriction and alkali loading. 1513.

Levine, M. M. *See* Savarino, S. J., Fasano, A., Robertson, D. C., and Levine, M. M.

Levine, R. A. *See* Zimmerman, L. H., Levine, R. A., and Farber, H. W.

Levitt, L. *See* Burdach, S., Zessack, N., Dilloo, D., Shatsky, M., Thompson, D., and Levitt, L.

Levitz, S. M., and Tabuni, A. Binding of *Cryptococcus neoformans* by human cultured macrophages. Requirements for multiple complement receptors and actin. 528.

Levitzki, A. *See* Padeh, S., Levitzki, A., Gazit, A., Mills, G. B., and Roifman, C. M.

Levy, J. A. *See* Mackewicz, C. E., Ortega, H. W., and Levy, J. A.

Lew, V. L., Freeman, C. J., Ortiz, O. E., and Bookchin, R. M. A mathematical model of the volume, pH, and ion content regulation in reticulocytes. Application to the pathophysiology of sickle cell dehydration. 100.

— *See* Bookchin, R. M., Ortiz, O. E., and Lew, V. L.

Lewis, D. B., Yu, C. C., Meyer, J., English, B. K., Kahn, S. J., and Wilson, C. B. Cellular and molecular mechanisms for reduced interleukin 4 and interferon-γ production by neonatal T cells. 194.

Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J. Spontaneous hepatic copper accumulation in Long-Evans Cinnamon rats with hereditary hepatitis. A model of Wilson's disease. 1858.

Liao, F., Berliner, J. A., Mehrabian, M., Navab, M., Demer, L. L., Lusis, A. J., and Fogelman, A. M. Minimally modified low density lipoprotein is biologically active in vivo in mice. 2253.

— *See* Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M.

Lin, C.-C. *See* Chu, A., Chambers, D. E., Lin, C.-C., Kuehl, W. D., Palmer, R. M. J., Moncada, S., and Cobb, F. R.

Lindsey, J. R. *See* McDonald, D. M., Schoeb, T. R., and Lindsey, J. R.

Link, H., Olsson, O., Sun, J., Wang, W.-Z., Andersson, G., Ekre, H.-P., Brenner, T., Abramsky, O., and Olsson, T. Acetylcholine receptor–reactive T and B cells in myasthenia gravis and controls. 2191.

Lipkowitz, M. S. *See* Beck, J. C., Lipkowitz, M. S., and Abramson, R. G.

Lipschik, G. Y. *See* Lundgren, B., Lipschik, G. Y., and Kovacs, J. A.

Lipsky, P. E. *See* Splawski, J. B., Jelinek, D. F., and Lipsky, P. E.

Lipson, L. G. *See* Fadda, G. Z., Hajjar, S. M., Perna, A. F., Zhou, X.-J., Lipson, L. G., and Massry, S. G.

Llor, X. *See* Jacoby, R. F., Llor, X., Teng, B.-B., Davidson, N. O., and Brasitus, T. A.

Lodish, H. F. *See* Kahn, B. B., Rossetti, L., Lodish, H. F., and Charron, M. J.

Long, W. J., Jr. *See* Quagliarello, V. J., Wispelwey, B., Long, W. J., Jr., and Scheld, W. M.

Lopez, P. A. *See* Heagy, W., Crumpacker, C., Lopez, P. A., and Finberg, R. W.

Lord, P. C. W., Wilmoth, L. M. G., Mizel, S. B., and McCall, C. E. Expression of interleukin-1α and β genes by human blood polymorphonuclear leukocytes. 1312.

Lorenz, J. N. *See* Sawaya, B. P., Weihprecht, H., Campbell, W. R., Lorenz, J. N., Webb, R. C., Briggs, J. P., and Schnermann, J.

Lortat-Jacob, H., Kleinman, H. K., and Grimaud, J.-A. High-affinity binding of interferon-γ to a basement membrane complex (Matrigel). 878.

Lotersztajn, S. *See* Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S.

Lotz, M. *See* Kekow, J., Wachsman, W., McCutchan, J. A., Gross, W. L., Zachariah, M., Carson, D. A., and Lotz, M.
Loux, N. *See* Pessah, M., Benlian, P., Beucler, I., Loux, N., Schmitz, J., Junien, C., and Infante, R.
Löwenberg, B. *See* Elbaz, O., Budel, L. M., Hoogerbrugge, H., Touw, I. P., Delwel, R., Mahmoud, L. A., and Löwenberg, B.
Lowrie, L. *See* White, R. B., Lowrie, L., Stork, J. E., Iskandar, S. S., Lamm, M. E., and Emancipator, S. N.
Lubin, B. H. *See* Rubin, E. M., Witkowska, H. E., Spangler, E., Curtin, P., Lubin, B. H., Mohandes, N., and Clift, S. M.
Lublin, D. M., Thompson, E. S., Green, A. M., Levene, C., and Telen, M. J. Dr(a−) polymorphism of decay accelerating factor. Biochemical, functional, and molecular characterization and production of allele-specific transfectants. 1945.
Ludgate, M. *See* Laurent, E., Van Sande, J., Ludgate, M., Corvilain, B., Rocmans, P., Dumont, J. E., and Mockel, J.
Luke, R. A., and Saffitz, J. E. Remodeling of ventricular conduction pathways in healed canine infarct border zones. 1594.
Lundgren, B., Lipschik, G. Y., and Kovacs, J. A. Purification and characterization of a major human *Pneumocystis carinii* surface antigen. 163.
Lusis, A. J. *See* Liao, F., Berliner, J. A., Mehrabian, M., Navab, M., Demer, L. L., Lusis, A. J., and Fogelman, A. M.
— *See* Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M.
Lyman, C. A. *See* Diamond, R. D., Lyman, C. A., and Wysong, D. R.
Lyman, S. *See* Burk, C. D., Newman, P. J., Lyman, S., Gill, J., Coller, B. S., and Poncz, M.
Lynch, C. *See* Krapf, R., Pearce, D., Lynch, C., Xi, X.-P., Reudelhuber, T. L., Pouysségur, J., and Rector, F. C., Jr.
Lyons, T. J., Bailie, K. E., Dyer, D. G., Dunn, J. A., and Baynes, J. W. Decrease in skin collagen glycation with improved glycemic control in patients with insulin-dependent diabetes mellitus. 1910.

M

Ma, Y. *See* Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R.
Mackewicz, C. E., Ortega, H. W., and Levy, J. A. CD8+ cell anti-HIV activity correlates with the clinical state of the infected individual. 1462.
Maclaren, N. K. *See* Atkinson, M. A., Holmes, L. A., Scharp, D. W., Lacy, P. E., and Maclaren, N. K.
Macy, E. *See* Saxon, A., Macy, E., Denis, K., Tary-Lehmann, M., Witte, O., and Braun, J.
Madara, J. L., and Carlson, S. Supraphysiologic L-tryptophan elicits cytoskeletal and macromolecular permeability alterations in hamster small intestinal epithelium in vitro. 454.
— *See* Nash, S., Parkos, C., Nusrat, A., Delp, C., and Madara, J. L.
— *See* Shapiro, M., Matthews, J., Hecht, G., Delp, C., and Madara, J. L.
Maddox, D. A. *See* Santella, R. N., Maddox, D. A., and Gennari, F. J.
Madison, L. D. *See* Chatterjee, V. K. K., Nagaya, T., Madison, L. D., Datta, S., Rentoumis, A., and Jameson, J. L.
Madsbad, S. *See* Ørskov, C., Jeppesen, J., Madsbad, S., and Holst, J. J.
Maeda, R., Raz, I., Zurlo, F., and Sommercorn, J. Activation of skeletal muscle casein kinase II by insulin is not diminished in subjects with insulin resistance. 1017.
Maffrand, J. P. *See* Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S.
Maher, E., Bardequez, A., Gardner, J. P., Goldsmith, L., Weiss, G., Mascarina, M., and Aviv, A. Endothelin- and oxytocin-induced calcium signaling in cultured human myometrial cells. 1251.
Mahmoud, L. A. *See* Elbaz, O., Budel, L. M., Hoogerbrugge, H., Touw, I. P., Delwel, R., Mahmoud, L. A., and Löwenberg, B.
Mai, U. E. H., Perez-Perez, G. I., Wahl, L. M., Wahl, S. M., Blaser, M. J., and Smith, P. D. Soluble surface proteins from *Helicobacter pylori* activate monocytes/macrophages by lipopolysaccharide-independent mechanism. 894.
Maianu, L. *See* Garvey, W. T., Maianu, L., Huecksteadt, T. P., Birnbaum, M. J., Molina, J. M., and Ciaraldi, T. P.
Majesky, M. W. *See* Johnson, R. J., Iida, H., Alpers, C. E., Majesky, M. W., Schwartz, S. M., Pritzl, P., Gordon, K., and Gown, A. M.
Malawista, S. E. *See* Di Giovine, F. S., Malawista, S. E., Thornton, E., and Duff, G. W.
Mallette, S. *See* Schwaiger, M., Hutchins, G. D., Kalff, V., Rosenspire, K., Haka, M. S., Mallette, S., Deeb, G. M., Abrams, G. D., and Wieland, D.
Malloy, M. J. *See* Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C.
Malone, J. D. *See* Pacifici, R., Carano, A., Santoro, S. A., Rifas, L., Jeffrey, J. J., Malone, J. D., McCracken, R., and Avioli, L. V.
Mamula, P. W. *See* Rosenthal, S. M., Brunetti, A., Brown, E. J., Mamula, P. W., and Goldfine, I. D.
Mancini, G. M. S., Beerens, C. E. M. T., Aula, P. P., and Verheijen, F. W. Sialic acid storage diseases. A multiple lysosomal transport defect for acidic monosaccharides. 1329.
Mancuso, D. J. *See* Randi, A. M., Rabinowitz, I., Mancuso, D. J., Mannucci, P. M., and Sadler, J. E.
Manheimer-Lory, A. J., Davidson, A., Watkins, D., Hannigan, N. R., and Diamond, B. A. Generation and analysis of clonal IgM- and IgG-producing human B cell lines expressing an anti-DNA–associated idiotype. 1519.
Mannucci, P. M. *See* Randi, A. M., Rabinowitz, I., Mancuso, D. J., Mannucci, P. M., and Sadler, J. E.
Mantovani, A. *See* Bussolino, F., Ziche, M., Wang, J. M., Alessi, D., Morbidelli, L., Cremona, O., Bosia, A., Marchisio, P. C., and Mantovani, A.
Mao-Qiang, M. *See* Proksch, E., Feingold, K. R., Mao-Qiang, M., and Elias, P. M.
Marais, A. D. *See* Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R.
Marcell, P. D. *See* Stabler, S. P., Brass, E. P., Marcell, P. D., and Allen, R. H.
Marcelli, M., Zoppi, S., Grino, P. B., Griffin, J. E., Wilson, J. D., and McPhaul, M. J. A mutation in the DNA-binding domain of the androgen receptor gene causes complete testicular feminization in a patient with receptor-positive androgen resistance. 1123.
— *See* McPhaul, M. J., Marcelli, M., Tilley, W. D., Griffin, J. E., Isidro-Gutierrez, R. F., and Wilson, J. D.
Marchisio, P. C. *See* Bussolino, F., Ziche, M., Wang, J. M., Alessi, D., Morbidelli, L., Cremona, O., Bosia, A., Marchisio, P. C., and Mantovani, A.
Marcus, A. J. *See* Santos, M. T., Valles, J., Marcus, A. J., Safier, L. B., Broekman, M. J., Islam, N., Ullman, H. L., Eiroa, A. M., and Aznar, J.
Maréchal, J. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.
Margulies, K. B. *See* Perrella, M. A., Margulies, K. B., Wei, C.-M., Aarhus, L. L., Heublein, D. M., and Burnett, J. C., Jr.
Maridonneau-Parini, I., Yang, C.-Z., Bornens, M., and Goud, B. Increase in the expression of a family of small guanosine triphosphate–binding proteins, rab proteins, during induced phagocyte differentiation. 901.
Mark, A. L. *See* Anderson, E. A., Hoffman, R. P., Balon, T. W., Sinkey, C. A., and Mark, A. L.
— *See* Somers, V. K., Mark, A. L., and Abboud, F. M.
Marques, D. *See* Sobel, M., McNeill, P. M., Carlson, P. L., Kermode, J. C., Adelman, B., Conroy, R., and Marques, D.
Marsh, J. B. *See* Bass, J., Fisher, E. A., Prack, M. M., Williams, D. L., and Marsh, J. B.
Martin, J. *See* Terkeltaub, R. A., Dyer, C. A., Martin, J., and Curtiss, L. K.
Marumo, F. *See* Shichiri, M., Hirata, Y., Nakajima, T., Ando, K., Imai, T., Yanagisawa, M., Masaki, T., and Marumo, F.
Marver, D. *See* Coor, C., Salmon, R. F., Quigley, R., Marver, D., and Baum, M.
Masaki, T. *See* Shichiri, M., Hirata, Y., Nakajima, T., Ando, K., Imai, T., Yanagisawa, M., Masaki, T., and Marumo, F.
Mascarina, M. *See* Maher, E., Bardequez, A., Gardner, J. P., Goldsmith, L., Weiss, G., Mascarina, M., and Aviv, A.

Masson, S. *See* Perdue, M. H., Masson, S., Wershil, B. K., and Galli, S. J.
Massry, S. G. *See* Fadda, G. Z., Hajjar, S. M., Perna, A. F., Zhou, X.-J., Lipson, L. G., and Massry, S. G.
Masumura, T. *See* Matsuo, M., Masumura, T., Nishio, H., Nakajima, T., Kitoh, Y., Takumi, T., Koga, J., and Nakamura, H.
Matoba, Y., Sherry, B., Fields, B. N., and Smith, T. W. Identification of the viral genes responsible for growth of strains of reovirus in cultured mouse heart cells. 1628.
Matsuda, I. *See* Mitsubuchi, H., Nobukuni, Y., Akaboshi, I., Indo, Y., Endo, F., and Matsuda, I.
— *See* Nobukuni, Y., Mitsubuchi, H., Akaboshi, I., Indo, Y., Endo, F., Yoshioka, A., and Matsuda, I.
— *See* Tanoue, A., Endo, F., Akaboshi, I., Oono, T., Arata, J., and Matsuda, I.
Matsui, S. M., Kim, J. P., Greenberg, H. B., Su, W., Sun, Q., Johnson, P. C., DuPont, H. L., Oshiro, L. S., and Reyes, G. R. The isolation and characterization of a Norwalk virus-specific cDNA. 1456.
Matsuo, M., Masumura, T., Nishio, H., Nakajima, T., Kitoh, Y., Takumi, T., Koga, J., and Nakamura, H. Exon skipping during splicing of dystrophin mRNA precursor due to an intraexon deletion in the dystrophin gene of Duchenne muscular dystrophy kobe. 2127.
Matthews, J. *See* Shapiro, M., Matthews, J., Hecht, G., Delp, C., and Madara, J. L.
Maury, C. P. J. Gelsolin-related amyloidosis. Identification of the amyloid protein in Finnish hereditary amyloidosis as a fragment of variant gelsolin. 1195.
McCall, C. E. *See* Lord, P. C. W., Wilmoth, L. M. G., Mizel, S. B., and McCall, C. E.
McCracken, G. H., Jr. *See* Velasco, S., Tarlow, M., Olsen, K., Shay, J. W., McCracken, G. H., Jr., and Nisen, P. D.
McCracken, R. *See* Pacifici, R., Carano, A., Santoro, S. A., Rifas, L., Jeffrey, J. J., Malone, J. D., McCracken, R., and Avioli, L. V.
McCulloch, D. K., Kahn, S. E., Schwartz, M. W., Koerker, D. J., and Palmer, J. P. Effect of nicotinic acid–induced insulin resistance on pancreatic B cell function in normal and streptozocin-treated baboons. 1395.
McCutchan, J. A. *See* Kekow, J., Wachsman, W., McCutchan, J. A., Gross, W. L., Zachariah, M., Carson, D. A., and Lotz, M.
McDonald, D. M., Schoeb, T. R., and Lindsey, J. R. *Mycoplasma pulmonis* infections cause long-lasting potentiation of neurogenic inflammation in the respiratory tract of the rat. 787.
McElrath, M. J., Steinman, R. M., and Cohn, Z. A. Latent HIV-1 infection in enriched populations of blood monocytes and T cells from seropositive patients. 27.
McGrath, M. S. *See* Pulliam, L., Herndier, B. G., Tang, N. M., and McGrath, M. S.
McGuinness, O. P. *See* Myers, S. R., McGuinness, O. P., Neal, D. W., and Cherrington, A. D.
McIntire, L. V. *See* Smith, C. W., Kishimoto, T. K., Abbassi, O., Hughes, B., Rothlein, R., McIntire, L. V., Butcher, E., and Anderson, D. C.
McKinley, C. *See* Everson, G. T., McKinley, C., and Kern, F., Jr.
McMaster, P. *See* Strain, A. J., Ismail, T., Tsubouchi, H., Arakaki, N., Hishida, T., Kitamura, N., Daikuhara, Y., and McMaster, P.
McNeill, P. M. *See* Sobel, M., McNeill, P. M., Carlson, P. L., Kermode, J. C., Adelman, B., Conroy, R., and Marques, D.
McNulty, P. H. *See* Young, L. H., McNulty, P. H., Morgan, C., Deckelbaum, L. I., Zaret, B. L., and Barrett, E. J.
McPhaul, M. J., Marcelli, M., Tilley, W. D., Griffin, J. E., Isidro-Gutierrez, R. F., and Wilson, J. D. Molecular basis of androgen resistance in a family with a qualitative abnormality of the androgen receptor and responsive to high-dose androgen therapy. 1413.
— *See* Marcelli, M., Zoppi, S., Grino, P. B., Griffin, J. E., Wilson, J. D., and McPhaul, M. J.
Means, R. T., Jr. *See* Dai, C. H., Krantz, S. B., Means, R. T., Jr., Horn, S. T., and Gilbert, H. S.
Meda, P. *See* Giordano, E., Bosco, D., Cirulli, V., and Meda, P.
Mehrabian, M. *See* Liao, F., Berliner, J. A., Mehrabian, M., Navab, M., Demer, L. L., Lusis, A. J., and Fogelman, A. M.
Mennone, A. *See* Strazzabosco, M., Mennone, A., and Boyer, J. L.
Menon, A. S. *See* Shykoff, B. E., Naqvi, S. S. J., Menon, A. S., and Slutsky, A. S.
Messmer, K. *See* Lehr, H. A., Guhlmann, A., Nolte, D., Keppler, D., and Messmer, K.
Metcalfe, D. D. *See* Thompson, H. L., Burbelo, P. D., Gabriel, G., Yamada, Y., and Metcalfe, D. D.
Meuer, S. C. *See* Moebius, U., Herrmann, F., Hercend, T., and Meuer, S. C.
Meyer, J. *See* Lewis, D. B., Yu, C. C., Meyer, J., English, B. K., Kahn, S. J., and Wilson, C. B.
Meyerovitch, J., Rothenberg, P., Shechter, Y., Bonner-Weir, S., and Kahn, C. R. Vanadate normalizes hyperglycemia in two mouse models of non–insulin-dependent diabetes mellitus. 1286.
Miller, D. C. *See* Yun, K. L., Niczyporuk, M. A., Sarris, G. E., Fann, J. I., and Miller, D. C.
Miller, E. *See* Rosenfeld, M. E., Khoo, J. C., Miller, E., Parthasarathy, S., Palinski, W., and Witztum, J. L.
Miller, M. E. *See* Antony, A. C., Briddell, R. A., Brandt, J. E., Straneva, J. E., Verma, R. S., Miller, M. E., Kalasinski, L. A., and Hoffman, R.
Miller, S. B. *See* Rogers, S. A., Miller, S. B., and Hammerman, M. R.
Mills, G. B. *See* Padeh, S., Levitzki, A., Gazit, A., Mills, G. B., and Roifman, C. M.
Min, A. D., Johansen, K. L., Campbell, C. G., and Wolkoff, A. W. Role of chloride and intracellular pH on the activity of the rat hepatocyte organic anion transporter. 1496.
Mitchell, B. S. *See* Turka, L. A., Dayton, J., Sinclair, G., Thompson, C. B., and Mitchell, B. S.
Mitchell, J. B. *See* Samuni, A., Winkelsberg, D., Pinson, A., Hahn, S. M., Mitchell, J. B., and Russo, A.
Mitchell, T. I., Coon, C. I., and Brinckerhoff, C. E. Serum amyloid A (SAA3) produced by rabbit synovial fibroblasts treated with phorbol esters or interleukin 1 induces synthesis of collagenase and is neutralized with specific antiserum. 1177.
Mitsubuchi, H., Nobukuni, Y., Akaboshi, I., Indo, Y., Endo, F., and Matsuda, I. Maple syrup urine disease caused by a partial deletion in the inner E_2 core domain of the branched chain α-keto acid dehydrogenase complex due to aberrant splicing. A single base deletion at a 5′-splice donor site of an intron of the E_2 gene disrupts the consensus sequence in this region. 1207.
— *See* Nobukuni, Y., Mitsubuchi, H., Akaboshi, I., Indo, Y., Endo, F., Yoshioka, A., and Matsuda, I.
Mitsuhashi, T., Morris, R. C., Jr., and Ives, H. E. 1,25-Dihydroxyvitamin D_3 modulates growth of vascular smooth muscle cells. 1889.
Mittelman, A., Chen, Z. J., Kageshita, T., Yang, H., Yamada, M., Baskind, P., Goldberg, N., Puccio, C., Ahmed, T., Arlin, Z., and Ferrone, S. Correction. 757.
Miyasaki, K. T., and Bodeau, A. L. In vitro killing of oral *Capnocytophaga* by granule fractions of human neutrophils is associated with cathepsin G activity. 1585.
Mizel, S. B. *See* Lord, P. C. W., Wilmoth, L. M. G., Mizel, S. B., and McCall, C. E.
Mizutani, H., Black, R., and Kupper, T. S. Human keratinocytes produce but do not process pro-interleukin-1 (IL-1) beta. Different strategies of IL-production and processing in monocytes and keratinocytes. 1066.
Mockel, J. *See* Laurent, E., Van Sande, J., Ludgate, M., Corvilain, B., Rocmans, P., Dumont, J. E., and Mockel, J.
Modlin, I. M. *See* Leach, S. D., Modlin, I. M., Scheele, G. A., and Gorelick, F. S.
Moebius, U., Herrmann, F., Hercend, T., and Meuer, S. C. Clonal analysis of $CD4^+/CD8^+$ T cells in a patient with aplastic anemia. 1567.
Mohandes, N. *See* Rubin, E. M., Witkowska, H. E., Spangler, E., Curtin, P., Lubin, B. H., Mohandes, N., and Clift, S. M.
Molina, J. M. *See* Garvey, W. T., Maianu, L., Hueckstedt, T. P., Birnbaum, M. J., Molina, J. M., and Ciaraldi, T. P.
Moncada, S. *See* Chu, A., Chambers, D. E., Lin, C.-C., Kuehl, W. D., Palmer, R. M. J., Moncada, S., and Cobb, F. R.
Monsalve, M. V. *See* Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R.
Moqbel, R. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.
Morbidelli, L. *See* Bussolino, F., Ziche, M., Wang, J. M., Alessi, D., Morbidelli, L., Cremona, O., Bosia, A., Marchisio, P. C., and Mantovani, A.

Morgan, C. *See* Young, L. H., McNulty, P. H., Morgan, C., Deckelbaum, L. I., Zaret, B. L., and Barrett, E. J.
Morgan, J. P. *See* Egashira, K., Morgan, K. G., and Morgan, J. P.
— *See* Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P.
Morgan, K. G. *See* Egashira, K., Morgan, K. G., and Morgan, J. P.
Mori, Y. *See* Ito, M., Mori, Y., Oiso, Y., and Saito, H.
Morishima, C. *See* Mustoe, T. A., Pierce, G. F., Morishima, C., and Deuel, T. F.
Morlé, L. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.
Morris, R. C., Jr. *See* Mitsuhashi, T., Morris, R. C., Jr., and Ives, H. E.
Mosca, P. G. *See* Sarin, S. K., Groszmann, R. J., Mosca, P. G., Rojkind, M., Stadecker, M. J., Bhatnagar, R., Reuben, A., and Dayal, Y.
Mosher, D. F. *See* Sun, X., and Mosher, D. F.
Moskowitz, R. W. *See* Eyre, D. R., Weis, M. A., and Moskowitz, R. W.
Moss, J. *See* Lee, C.-M., Chang, P. P., Tsai, S.-C., Adamik, R., Price, S. R., Kunz, B. C., Moss, J., Twiddy, E. M., and Holmes, R. K.
Mostov, K. E. *See* Apodaca, G., Bomsel, M., Arden, J., Breitfeld, P. P., Tang, K., and Mostov, K. E.
Mott, D. M. *See* Kida, Y., Nyomba, B. L., Bogardus, C., and Mott, D. M.
Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H. Brain natriuretic peptide as a novel cardiac hormone in humans. Evidence for an exquisite dual natriuretic peptide system, atrial natriuretic peptide and brain natriuretic peptide. 1402.
Mulligan, K. *See* Hellerstein, M. K., Christiansen, M., Kaempfer, S., Kletke, C., Wu, K., Reid, J. S., Mulligan, K., Hellerstein, N. S., and Shackleton, C. H. L.
Mundy, G. R. *See* Yoneda, T., Alsina, M. A., Chavez, J. B., Bonewald, L., Nishimura, R., and Mundy, G. R.
Murakawa, K.-i. *See* Kohno, M., Yasunari, K., Yokokawa, K., Murakawa, K.-i., Horio, T., and Takeda, T.
Murata, M. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.
Mustoe, T. A., Pierce, G. F., Morishima, C., and Deuel, T. F. Growth factor-induced acceleration of tissue repair through direct and inductive activities in a rabbit dermal ulcer model. 694.
Myers, S. R., McGuinness, O. P., Neal, D. W., and Cherrington, A. D. Intraportal glucose delivery alters the relationship between net hepatic glucose uptake and the insulin concentration. 930.

N

Nadel, J. A., Conrad, D. J., Ueki, I. F., Schuster, A., and Sigal, E. Immunocytochemical localization of arachidonate 15-lipoxygenase in erythrocytes, leukocytes, and airway cells. 1139.
Naftilan, A. J., Zuo, W. M., Inglefinger, J., Ryan, T. J., Jr., Pratt, R. E., and Dzau, V. J. Localization and differential regulation of angiotensinogen mRNA expression in the vessel wall. 1300.
Nagaya, T. *See* Chatterjee, V. K. K., Nagaya, T., Madison, L. D., Datta, S., Rentoumis, A., and Jameson, J. L.
Nakajima, T. *See* Matsuo, M., Masumura, T., Nishio, H., Nakajima, T., Kitoh, Y., Takumi, T., Koga, J., and Nakamura, H.
— *See* Shichiri, M., Hirata, Y., Nakajima, T., Ando, K., Imai, T., Yanagisawa, M., Masaki, T., and Marumo, F.
Nakamura, H., Nemenoff, R. A., Gronich, J. H., and Bonventre, J. V. Subcellular characteristics of phospholipase A_2 activity in the rat kidney. Enhanced cytosolic, mitochondrial, and microsomal phospholipase A_2 enzymatic activity after renal ischemia and reperfusion. 1810.
— *See* Matsuo, M., Masumura, T., Nishio, H., Nakajima, T., Kitoh, Y., Takumi, T., Koga, J., and Nakamura, H.
Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A. Depressed contractile function due to canine mitral regurgitation improves after correction of the volume overload. 2077.
Nakao, K. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.
Naqvi, S. S. J. *See* Shykoff, B. E., Naqvi, S. S. J., Menon, A. S., and Slutsky, A. S.
Narciso, J. *See* Brass, C. A., Narciso, J., and Gollan, J. L.
Nash, S., Parkos, C., Nusrat, A., Delp, C., and Madara, J. L. In vitro model of intestinal crypt abscess. A novel neutrophil-derived secretagogue activity. 1474.
Natvig, J. B. *See* Victor, K. D., Randen, I., Thompson, K., Forre, O., Natvig, J. B., Fu, S. M., and Capra, J. D.
Nauseef, W. M. *See* Heyworth, P. G., Curnutte, J. T., Nauseef, W. M., Volpp, B. D., Pearson, D. W., Rosen, H., and Clark, R. A.
Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M. Interaction of monocytes with cocultures of human aortic wall cells involves interleukins 1 and 6 with marked increases in connexin43 message. 1763.
— *See* Liao, F., Berliner, J. A., Mehrabian, M., Navab, M., Demer, L. L., Lusis, A. J., and Fogelman, A. M.
Neal, D. W. *See* Myers, S. R., McGuinness, O. P., Neal, D. W., and Cherrington, A. D.
Needleman, P. *See* Ritter, D., Needleman, P., and Greenwald, J. E.
Nelson, D. L. *See* Boumpas, D. T., Anastassiou, E. D., Older, S. A., Tsokos, G. C., Nelson, D. L., and Balow, J. E.
Nemenoff, R. A. *See* Nakamura, H., Nemenoff, R. A., Gronich, J. H., and Bonventre, J. V.
New, M. I. *See* White, P. C., Dupont, J., New, M. I., Leiberman, E., Hochberg, Z., and Rösler, A.
Newman, P. J. *See* Burk, C. D., Newman, P. J., Lyman, S., Gill, J., Coller, B. S., and Poncz, M.
Nichols, W. C. *See* Cooney, K. A., Nichols, W. C., Bruck, M. E., Bahou, W. F., Shapiro, A. D., Bowie, E. J. W., Gralnick, H. R., and Ginsburg, D.
Niczyporuk, M. A. *See* Yun, K. L., Niczyporuk, M. A., Sarris, G. E., Fann, J. I., and Miller, D. C.
Niemelä, O., Juvonen, T., and Parkkila, S. Immunohistochemical demonstration of acetaldehyde-modified epitopes in human liver after alcohol consumption. 1367.
Nierodzik, M. L., Plotkin, A., Kajumo, F., and Karpatkin, S. Thrombin stimulates tumor–platelet adhesion in vitro and metastasis in vivo. 229.
Nisen, P. D. *See* Velasco, S., Tarlow, M., Olsen, K., Shay, J. W., McCracken, G. H., Jr., and Nisen, P. D.
Nishimura, R. *See* Yoneda, T., Alsina, M. A., Chavez, J. B., Bonewald, L., Nishimura, R., and Mundy, G. R.
Nishio, H. *See* Matsuo, M., Masumura, T., Nishio, H., Nakajima, T., Kitoh, Y., Takumi, T., Koga, J., and Nakamura, H.
Niv, Y. *See* Bresalier, R. S., Niv, Y., Byrd, J. C., Duh, Q.-Y., Toribara, N. W., Rockwell, R. W., Dahiya, R., and Kim, Y. S.
Nizet, V. *See* Palefsky, J. M., Winkler, B., Rabanus, J.-P., Clark, C., Chan, S., Nizet, V., and Schoolnik, G. K.
Nobukuni, Y., Mitsubuchi, H., Akaboshi, I., Indo, Y., Endo, F., Yoshioka, A., and Matsuda, I. Maple syrup urine disease. Complete defect of the $E_1\beta$ subunit of the branched chain α-ketoacid dehydrogenase complex due to a deletion of an 11–bp repeat sequence which encodes a mitochondrial targeting leader peptide in a family with the disease. 1862.
— *See* Mitsubuchi, H., Nobukuni, Y., Akaboshi, I., Indo, Y., Endo, F., and Matsuda, I.
Nolte, D. *See* Lehr, H. A., Guhlmann, A., Nolte, D., Keppler, D., and Messmer, K.
Nusrat, A. *See* Nash, S., Parkos, C., Nusrat, A., Delp, C., and Madara, J. L.
Nusrat, A. R., and Chapman, H. A., Jr. An autocrine role for urokinase in phorbol ester–mediated differentiation of myeloid cell lines. 1091.
Nyomba, B. L. *See* Kida, Y., Nyomba, B. L., Bogardus, C., and Mott, D. M.

O

Obata, K. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.

Oetting, W. *See* King, R. A., Townsend, D., Oetting, W., Summers, C. G., Olds, D. P., White, J. G., and Spritz, R. A.
Ogawa, Y. *See* Brandes, M. E., Allen, J. B., Ogawa, Y., and Wahl, S. M.
— *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.
Ogushi, F., Hubbard, R. C., Vogelmeier, C., Fells, G. A., and Crystal, R. G. Risk factors for emphysema. Cigarette smoking is associated with a reduction in the association rate constant of lung α1-antitrypsin for neutrophil elastase. 1060.
Oiso, Y. *See* Ito, M., Mori, Y., Oiso, Y., and Saito, H.
Okamura, N. *See* Woodman, R. C., Ruedi, J. M., Jesaitis, A. J., Okamura, N., Quinn, M. T., Smith, R. M., Curnutte, J. T., and Babior, B. M.
Older, S. A. *See* Boumpas, D. T., Anastassiou, E. D., Older, S. A., Tsokos, G. C., Nelson, D. L., and Balow, J. E.
Olds, D. P. *See* King, R. A., Townsend, D., Oetting, W., Summers, C. G., Olds, D. P., White, J. G., and Spritz, R. A.
Olefsky, J. M. *See* Friedenberg, G. R., Suter, S. L., Henry, R. R., Reichart, D., and Olefsky, J. M.
Olsen, K. *See* Velasco, S., Tarlow, M., Olsen, K., Shay, J. W., McCracken, G. H., Jr., and Nisen, P. D.
Olsen, M. L. *See* Arnett, F. C., Olsen, M. L., Anderson, K. L., and Reveille, J. D.
Olsson, O. *See* Link, H., Olsson, O., Sun, J., Wang, W.-Z., Andersson, G., Ekre, H.-P., Brenner, T., Abramsky, O., and Olsson, T.
Olsson, T. *See* Link, H., Olsson, O., Sun, J., Wang, W.-Z., Andersson, G., Ekre, H.-P., Brenner, T., Abramsky, O., and Olsson, T.
Ookhtens, M. *See* Fernández-Checa, J. C., García-Ruiz, C., Ookhtens, M., and Kaplowitz, N.
Oono, T. *See* Tanoue, A., Endo, F., Akaboshi, I., Oono, T., Arata, J., and Matsuda, I.
Oppenheimer, J. H., Schwartz, H. L., Lane, J. T., and Thompson, M. P. Functional relationship of thyroid hormone–induced lipogenesis, lipolysis, and thermogenesis in the rat. 125.
Ørskov, C., Jeppesen, J., Madsbad, S., and Holst, J. J. Proglucagon products in plasma of noninsulin-dependent diabetics and nondiabetic controls in the fasting state and after oral glucose and intravenous arginine. 415.
Ortega, H. W. *See* Mackewicz, C. E., Ortega, H. W., and Levy, J. A.
Ortiz, O. E. *See* Bookchin, R. M., Ortiz, O. E., and Lew, V. L.
— *See* Lew, V. L., Freeman, C. J., Ortiz, O. E., and Bookchin, R. M.
Oshiro, L. S. *See* Matsui, S. M., Kim, J. P., Greenberg, H. B., Su, W., Sun, Q., Johnson, P. C., DuPont, H. L., Oshiro, L. S., and Reyes, G. R.
Owen, W. F., Jr., Petersen, J., and Austen, K. F. Eosinophils altered phenotypically and primed by culture with granulocyte/macrophage colony–stimulating factor and 3T3 fibroblasts generate leukotriene C_4 in response to FMLP. 1958.
Oxbrow, L. *See* Campbell, I. L., Kay, T. W. H., Oxbrow, L., and Harrison, L. C.

P

Pacifici, R., Carano, A., Santoro, S. A., Rifas, L., Jeffrey, J. J., Malone, J. D., McCracken, R., and Avioli, L. V. Bone matrix constituents stimulate interleukin-1 release from human blood mononuclear cells. 221.
Padeh, S., Levitzki, A., Gazit, A., Mills, G. B., and Roifman, C. M. Activation of phospholipase C in human B cells is dependent on tyrosine phosphorylation. 1114.
Palefsky, J. M., Winkler, B., Rabanus, J.-P., Clark, C., Chan, S., Nizet, V., and Schoolnik, G. K. Characterization of in vivo expression of the human papillomavirus type 16 E4 protein in cervical biopsy tissues. 2132.
Palinski, W. *See* Rosenfeld, M. E., Khoo, J. C., Miller, E., Parthasarathy, S., Palinski, W., and Witztum, J. L.
Pallone, T. L. Effect of sodium chloride gradients on water flux in rat descending vasa recta. 12.
Palmer, J. P. *See* McCulloch, D. K., Kahn, S. E., Schwartz, M. W., Koerker, D. J., and Palmer, J. P.
Palmer, R. M. J. *See* Chu, A., Chambers, D. E., Lin, C.-C., Kuehl, W. D., Palmer, R. M. J., Moncada, S., and Cobb, F. R.
Parker, R. J., Eastman, A., Bostick-Bruton, F., and Reed, E. Acquired cisplatin resistance in human ovarian cancer cells is associated with enhanced repair of cisplatin-DNA lesions and reduced drug accumulation. 772.
Parkkila, S. *See* Niemelä, O., Juvonen, T., and Parkkila, S.
Parkos, C. *See* Nash, S., Parkos, C., Nusrat, A., Delp, C., and Madara, J. L.
Parthasarathy, S. *See* Rosenfeld, M. E., Khoo, J. C., Miller, E., Parthasarathy, S., Palinski, W., and Witztum, J. L.
— *See* Ylä-Herttuala, S., Rosenfeld, M. E., Parthasarathy, S., Sigal, E., Särkioja, T., Witztum, J. L., and Steinberg, D.
Patel, V. M. *See* Khosla, S., Patel, V. M., Hay, I. D., Schaid, D. J., Grant, C. S., Van Heerden, J. A., and Thibodeau, S. N.
Pauza, C. D. *See* Terai, C., Kornbluth, R. S., Pauza, C. D., Richman, D. D., and Carson, D. A.
Payen, D. *See* Vicaut, E., Hou, X., Payen, D., Bousseau, A., and Tedgui, A.
Peach, M. J. *See* El-Dahr, S. S., Gomez, R. A., Gray, M. S., Peach, M. J., Carey, R. M., and Chevalier, R. L.
Pearce, D. *See* Krapf, R., Pearce, D., Lynch, C., Xi, X.-P., Reudelhuber, T. L., Pouysségur, J., and Rector, F. C., Jr.
Pearson, D. W. *See* Heyworth, P. G., Curnutte, J. T., Nauseef, W. M., Volpp, B. D., Pearson, D. W., Rosen, H., and Clark, R. A.
Peleman, R. *See* Wu, C. Y., Sarfati, M., Heusser, C., Fournier, S., Rubio-Trujillo, M., Peleman, R., and Delespesse, G.
Peltonen, J. *See* Hsiao, L. L., Peltonen, J., Jaakkola, S., Grainick, H., and Uitto, J.
Perdue, M. H., Masson, S., Wershil, B. K., and Galli, S. J. Role of mast cells in ion transport abnormalities associated with intestinal anaphylaxis. Correction of the diminished secretory response in genetically mast cell-deficient *W/W*^{v} mice by bone marrow transplantation. 687.
Perez, H. D., Kelly, E., Elfman, F., Armitage, G., and Winkler, J. Defective polymorphonuclear leukocyte formyl peptide receptor(s) in juvenile periodontitis. 971.
Perez-Perez, G. I. *See* Mai, U. E. H., Perez-Perez, G. I., Wahl, L. M., Wahl, S. M., Blaser, M. J., and Smith, P. D.
Perna, A. F. *See* Fadda, G. Z., Hajjar, S. M., Perna, A. F., Zhou, X.-J., Lipson, L. G., and Massry, S. G.
Perrella, M. A., Margulies, K. B., Wei, C.-M., Aarhus, L. L., Heublein, D. M., and Burnett, J. C., Jr. Pulmonary and urinary clearance of atrial natriuretic factor in acute congestive heart failure in dogs. 1649.
Perry, M. A., and Granger, D. N. Role of CD11/CD18 in shear rate-dependent leukocyte-endothelial cell interactions in cat mesenteric venules. 1798.
Pessah, M., Benlian, P., Beucler, I., Loux, N., Schmitz, J., Junien, C., and Infante, R. Anderson's disease: genetic exclusion of the apolipoprotein-B gene in two families. 367.
Petersen, J. *See* Owen, W. F., Jr., Petersen, J., and Austen, K. F.
Peterson, J. *See* Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R.
Petrides, A. S. *See* Groop, L. C., Bonadonna, R. C., Shank, M., Petrides, A. S., and DeFronzo, R. A.
Peyman, J. A. *See* Pinter, E., Peyman, J. A., Snow, K., Jamieson, J. D., and Warshaw, J. B.
Phan, S. H., Gharaee-Kermani, M., Wolber, F., and Ryan, U. S. Stimulation of rat endothelial cell transforming growth factor-β production by bleomycin. 148.
Phillips, P. J. *See* Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P.
Pierce, G. F. *See* Mustoe, T. A., Pierce, G. F., Morishima, C., and Deuel, T. F.
Pierce, J. A. *See* Shapiro, S. D., Endicott, S. K., Province, M. A., Pierce, J. A., and Campbell, E. J.
Pierotti, V. R. *See* Welty, F. K., Hubl, S. T., Pierotti, V. R., and Young, S. G.
Pierrot, D. *See* Plotkowski, M. C., Chevillard, M., Pierrot, D., Altemayer, D., Zahm, J. M., Colliot, G., and Puchelle, E.
Pinson, A. *See* Samuni, A., Winkelsberg, D., Pinson, A., Hahn, S. M., Mitchell, J. B., and Russo, A.
Pinter, E., Peyman, J. A., Snow, K., Jamieson, J. D., and Warshaw, J. B. Effects of maternal diabetes on fetal rat lung ion transport. Contribution of alveolar and bronchiolar epithelial cells to Na^+,K^+-ATPase expression. 821.

Pittman, R. C. *See* Goldberg, D. I., Beltz, W. F., and Pittman, R. C.
Plotkin, A. *See* Nierodzik, M. L., Plotkin, A., Kajumo, F., and Karpatkin, S.
Plotkowski, M. C., Chevillard, M., Pierrot, D., Altemayer, D., Zahm, J. M., Colliot, G., and Puchelle, E. Differential adhesion of *pseudomonas aeruginosa* to human respiratory epithelial cells in primary culture. 2018.
Pober, J. S. *See* Leung, D. Y. M., Pober, J. S., and Cotran, R. S.
Podolsky, D. K. *See* Suemori, S., Ciacci, C., and Podolsky, D. K.
Polley, M. *See* Suttorp, N., Polley, M., Seybold, J., Schnittler, H., Seeger, W., Grimminger, F., and Aktories, K.
Polonsky, K. S. *See* Sturis, J., Van Cauter, E., Blackman, J. D., and Polonsky, K. S.
Poncz, M. *See* Burk, C. D., Newman, P. J., Lyman, S., Gill, J., Coller, B. S., and Poncz, M.
Postel-Vinay, M.-C. *See* Amselem, S., Sobrier, M.-L., Duquesnoy, P., Rappaport, R., Postel-Vinay, M.-C., Gourmelen, M., Dallapiccola, B., and Goossens, M.
Postlethwaite, A. E., and Seyer, J. M. Fibroblast chemotaxis induction by human recombinant interleukin-4. Identification by synthetic peptide analysis of two chemotactic domains residing in amino acid sequences 70-88 and 89-122. 2147.
— *See* Ballou, L. R., Barker, S. C., Postlethwaite, A. E., and Kang, A. H.
Pothier, B. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.
Pouysségur, J. *See* Krapf, R., Pearce, D., Lynch, C., Xi, X.-P., Reudelhuber, T. L., Pouysségur, J., and Rector, F. C., Jr.
Powell, L. M. *See* Zioncheck, T. F., Powell, L. M., Rice, G. C., Eaton, D. L., and Lawn, R. M.
Prack, M. M. *See* Bass, J., Fisher, E. A., Prack, M. M., Williams, D. L., and Marsh, J. B.
Pratt, R. E. *See* Naftilan, A. J., Zuo, W. M., Inglefinger, J., Ryan, T. J., Jr., Pratt, R. E., and Dzau, V. J.
Préaux, A. M. *See* Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S.
Preud'homme, J-L. *See* Cogné, M., Preud'homme, J-L, Bauwens, M., Touchard, G., and Aucouturier, P.
Price, S. R. *See* Lee, C.-M., Chang, P. P., Tsai, S.-C., Adamik, R., Price, S. R., Kunz, B. C., Moss, J., Twiddy, E. M., and Holmes, R. K.
Pritchard, P. H. *See* Funke, H., Von Eckardstein, A., Pritchard, P. H., Karas, M., Albers, J. J., and Assmann, G.
Pritzl, P. *See* Johnson, R. J., Iida, H., Alpers, C. E., Majesky, M. W., Schwartz, S. M., Pritzl, P., Gordon, K., and Gown, A. M.
Prochownik, E. V. *See* Castle, V., Varani, J., Fligiel, S., Prochownik, E. V., and Dixit, V.
Proksch, E., Feingold, K. R., Mao-Qiang, M., and Elias, P. M. Barrier function regulates epidermal DNA synthesis. 1668.
Province, M. A. *See* Shapiro, S. D., Endicott, S. K., Province, M. A., Pierce, J. A., and Campbell, E. J.
Puchelle, E. *See* Plotkowski, M. C., Chevillard, M., Pierrot, D., Altemayer, D., Zahm, J. M., Colliot, G., and Puchelle, E.
Pulliam, L., Herndier, B. G., Tang, N. M., and McGrath, M. S. Human immunodeficiency virus–infected macrophages produce soluble factors that cause histological and neurochemical alterations in cultured human brains. 503.

Q

Quagliarello, V. J., Wispelwey, B., Long, W. J., Jr., and Scheld, W. M. Recombinant human interleukin-1 induces meningitis and blood-brain barrier injury in the rat. Characterization and comparison with tumor necrosis factor. 1360.
Quigley, R. *See* Coor, C., Salmon, R. F., Quigley, R., Marver, D., and Baum, M.
Quinet, E., Tall, A., Ramakrishnan, R., and Rudel, L. Plasma lipid transfer protein as a determinant of the atherogenicity of monkey plasma lipoproteins. 1559.
Quinn, M. T. *See* Woodman, R. C., Ruedi, J. M., Jesaitis, A. J., Okamura, N., Quinn, M. T., Smith, R. M., Curnutte, J. T., and Babior, B. M.
Quint, D. J. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.

R

Rabanus, J.-P. *See* Palefsky, J. M., Winkler, B., Rabanus, J.-P., Clark, C., Chan, S., Nizet, V., and Schoolnik, G. K.
Rabinowitz, I. *See* Randi, A. M., Rabinowitz, I., Mancuso, D. J., Mannucci, P. M., and Sadler, J. E.
Raff, M. L., Crane, A. M., Jansen, R., Ledley, F. D., and Rosenblatt, D. S. Genetic characterization of a MUT locus mutation discriminating heterogeneity in mut^0 and mut^- methylmalonic aciduria by interallelic complementation. 203.
Raffestin, B. *See* Adnot, S., Raffestin, B., Eddahibi, S., Braquet, P., and Chabrier, P.-E.
Rahmig, T. *See* Lackner, C., Boerwinkle, E., Leffert, C. C., Rahmig, T., and Hobbs, H. H.
Raine, C. S. *See* Selmaj, K., Raine, C. S., Cannella, B., and Brosnan, C. F.
Raines, E. W. *See* Golden, M. A., Au, Y. P. T., Kirkman, T. R., Wilcox, J. N., Raines, E. W., Ross, R., and Clowes, A. W.
Rajavashisth, T. B. *See* Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M.
Rajfer, S. I. *See* Carroll, J. D., Shroff, S., Wirth, P., Halsted, M., and Rajfer, S. I.
Ramakrishnan, R. *See* Quinet, E., Tall, A., Ramakrishnan, R., and Rudel, L.
Ramarao, P. *See* Hirano, T., Saluja, A., Ramarao, P., Lerch, M. M., Saluja, M., and Steer, M. L.
Randen, I. *See* Victor, K. D., Randen, I., Thompson, K., Forre, O., Natvig, J. B., Fu, S. M., and Capra, J. D.
Randi, A. M., Rabinowitz, I., Mancuso, D. J., Mannucci, P. M., and Sadler, J. E. Molecular basis of von Willebrand disease type IIB. Candidate mutations cluster in one disulfide loop between proposed platelet glycoprotein Ib binding sequences. 1220.
Rappaport, R. *See* Amselem, S., Sobrier, M.-L., Duquesnoy, P., Rappaport, R., Postel-Vinay, M.-C., Gourmelen, M., Dallapiccola, B., and Goossens, M.
Raufaste, D. *See* Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S.
Raz, I. *See* Maeda, R., Raz, I., Zurlo, F., and Sommercorn, J.
Rector, F. C., Jr. *See* Krapf, R., Pearce, D., Lynch, C., Xi, X.-P., Reudelhuber, T. L., Pouysségur, J., and Rector, F. C., Jr.
Reed, E. *See* Parker, R. J., Eastman, A., Bostick-Bruton, F., and Reed, E.
Refetoff, S. *See* Takeda, K., Balzano, S., Sakurai, A., DeGroot, L. J., and Refetoff, S.
Reichart, D. *See* Friedenberg, G. R., Suter, S. L., Henry, R. R., Reichart, D., and Olefsky, J. M.
Reid, J. S. *See* Hellerstein, M. K., Christiansen, M., Kaempfer, S., Kletke, C., Wu, K., Reid, J. S., Mulligan, K., Hellerstein, N. S., and Shackleton, C. H. L.
Ren, S.-G., and Braunstein, G. D. Decidua produces a protein that inhibits choriogonadotrophin release from human trophoblasts. 326.
Rentoumis, A. *See* Chatterjee, V. K. K., Nagaya, T., Madison, L. D., Datta, S., Rentoumis, A., and Jameson, J. L.
Reuben, A. *See* Sarin, S. K., Groszmann, R. J., Mosca, P. G., Rojkind, M., Stadecker, M. J., Bhatnagar, R., Reuben, A., and Dayal, Y.
Reudelhuber, T. L. *See* Krapf, R., Pearce, D., Lynch, C., Xi, X.-P., Reudelhuber, T. L., Pouysségur, J., and Rector, F. C., Jr.
Reuser, A. J. J. *See* Van der Ploeg, A. T., Kroos, M. A., Willemsen, R., Brons, N. H. C., and Reuser, A. J. J.
Reveille, J. D. *See* Arnett, F. C., Olsen, M. L., Anderson, K. L., and Reveille, J. D.
Reyes, F. *See* Kanavaros, P., Farcet, J.-P., Gaulard, P., Haioun, C., Divine, M., Le Couedic, J.-P., Lefranc, M. P., and Reyes, F.

Reyes, G. R. *See* Matsui, S. M., Kim, J. P., Greenberg, H. B., Su, W., Sun, Q., Johnson, P. C., DuPont, H. L., Oshiro, L. S., and Reyes, G. R.
Rice, G. C. *See* Zioncheck, T. F., Powell, L. M., Rice, G. C., Eaton, D. L., and Lawn, R. M.
Richman, D. D. *See* Terai, C., Kornbluth, R. S., Pauza, C. D., Richman, D. D., and Carson, D. A.
Rifas, L. *See* Pacifici, R., Carano, A., Santoro, S. A., Rifas, L., Jeffrey, J. J., Malone, J. D., McCracken, R., and Avioli, L. V.
Ritter, D., Needleman, P., and Greenwald, J. E. Synthesis and secretion of an atriopeptin-like protein in rat kidney cell culture. 208.
Ritter, M. C. *See* Bagdade, J. D., Ritter, M. C., and Subbaiah, P. V.
Robertson, D. C. *See* Savarino, S. J., Fasano, A., Robertson, D. C., and Levine, M. M.
Roche, B. *See* Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S.
Rockwell, R. W. *See* Bresalier, R. S., Niv, Y., Byrd, J. C., Duh, Q.-Y., Toribara, N. W., Rockwell, R. W., Dahiya, R., and Kim, Y. S.
Rocmans, P. *See* Laurent, E., Van Sande, J., Ludgate, M., Corvilain, B., Rocmans, P., Dumont, J. E., and Mockel, J.
Roeser, N. F. *See* Weinberg, J. M., Davis, J. A., Roeser, N. F., and Venkatachalam, M. A.
Rogers, S. A., Miller, S. B., and Hammerman, M. R. Insulin-like growth factor I gene expression in isolated rat renal collecting duct is stimulated by epidermal growth factor. 347.
Roifman, C. M. *See* Padeh, S., Levitzki, A., Gazit, A., Mills, G. B., and Roifman, C. M.
Rojkind, M. *See* Sarin, S. K., Groszmann, R. J., Mosca, P. G., Rojkind, M., Stadecker, M. J., Bhatnagar, R., Reuben, A., and Dayal, Y.
Roll, F. J. *See* Hultcrantz, R., Bissell, D. M., and Roll, F. J.
Rorer, E. *See* Hurley, D. M., Accili, D., Stratakis, C. A., Karl, M., Vamvakopoulos, N., Rorer, E., Constantine, K., Taylor, S. I., and Chrousos, G. P.
Rosemblatt, M., Vuillet-Gaugler, M. H., Leroy, C., and Coulombel, L. Coexpression of two fibronectin receptors, VLA-4 and VLA-5, by immature human erythroblastic precursor cells. 6.
Rosen, F. S. *See* Kramer, J., Katz, Y., Rosen, F. S., Davis, A. E., III, and Strunk, R. C.
Rosen, H. *See* Heyworth, P. G., Curnutte, J. T., Nauseef, W. M., Volpp, B. D., Pearson, D. W., Rosen, H., and Clark, R. A.
Rosenblatt, D. S. *See* Raff, M. L., Crane, A. M., Jansen, R., Ledley, F. D., and Rosenblatt, D. S.
Rosenfeld, M. E., Khoo, J. C., Miller, E., Parthasarathy, S., Palinski, W., and Witztum, J. L. Macrophage-derived foam cells freshly isolated from rabbit atherosclerotic lesions degrade modified lipoproteins, promote oxidation of low-density lipoproteins, and contain oxidation-specific lipid-protein adducts. 90.
— *See* Ylä-Herttuala, S., Rosenfeld, M. E., Parthasarathy, S., Sigal, E., Särkioja, T., Witztum, J. L., and Steinberg, D.
Rosenspire, K. *See* Schwaiger, M., Hutchins, G. D., Kalff, V., Rosenspire, K., Haka, M. S., Mallette, S., Deeb, G. M., Abrams, G. D., and Wieland, D.
Rosenthal, S. M., Brunetti, A., Brown, E. J., Mamula, P. W., and Goldfine, I. D. Regulation of insulin-like growth factor (IGF) I receptor expression during muscle cell differentiation. Potential autocrine role of IGF-II. 1212.
Rösler, A. *See* White, P. C., Dupont, J., New, M. I., Leiberman, E., Hochberg, Z., and Rösler, A.
Ross, L. A. *See* Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M.
Ross, R. *See* Golden, M. A., Au, Y. P. T., Kirkman, T. R., Wilcox, J. N., Raines, E. W., Ross, R., and Clowes, A. W.
Rossetti, L. *See* Kahn, B. B., Rossetti, L., Lodish, H. F., and Charron, M. J.
— *See* Kahn, B. B., Shulman, G. I., DeFronzo, R. A., Cushman, S. W., and Rossetti, L.
Rossitch, E., Jr., Alexander, E., III, Black, P. M., and Cooke, J. P. L-Arginine normalizes endothelial function in cerebral vessels from hypercholesterolemic rabbits. 1295.
Rothenberg, P. *See* Meyerovitch, J., Rothenberg, P., Shechter, Y., Bonner-Weir, S., and Kahn, C. R.
Rothlein, R. *See* Smith, C. W., Kishimoto, T. K., Abbassi, O., Hughes, B., Rothlein, R., McIntire, L. V., Butcher, E., and Anderson, D. C.
Roux, A.-F. *See* Alloisio, N., Morlé, L., Maréchal, J., Roux, A.-F., Ducluzeau, M.-T., Guetarni, D., Pothier, B., Baklouti, F., Ghanem, A., Kastally, R., and Delaunay, J.
Rubin, E. M., Witkowska, H. E., Spangler, E., Curtin, P., Lubin, B. H., Mohandes, N., and Clift, S. M. Hypoxia-induced in vivo sickling of transgenic mouse red cells. 639.
Rubio-Trujillo, M. *See* Wu, C. Y., Sarfati, M., Heusser, C., Fournier, S., Rubio-Trujillo, M., Peleman, R., and Delespesse, G.
Rudel, L. *See* Quinet, E., Tall, A., Ramakrishnan, R., and Rudel, L.
Ruedi, J. M. *See* Woodman, R. C., Ruedi, J. M., Jesaitis, A. J., Okamura, N., Quinn, M. T., Smith, R. M., Curnutte, J. T., and Babior, B. M.
Ruggeri, Z. M. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.
Ruoslahti, E. Integrins. 1.
Russell, R. R., III, and Taegtmeyer, H. Changes in citric acid cycle flux and anaplerosis antedate the functional decline in isolated rat hearts utilizing acetoacetate. 384.
Russo, A. *See* Samuni, A., Winkelsberg, D., Pinson, A., Hahn, S. M., Mitchell, J. B., and Russo, A.
Ryan, T. J., Jr. *See* Naftilan, A. J., Zuo, W. M., Inglefinger, J., Ryan, T. J., Jr., Pratt, R. E., and Dzau, V. J.
Ryan, U. S. *See* Phan, S. H., Gharaee-Kermani, M., Wolber, F., and Ryan, U. S.

S

Sadler, J. E. *See* Randi, A. M., Rabinowitz, I., Mancuso, D. J., Mannucci, P. M., and Sadler, J. E.
Saffitz, J. E. *See* Luke, R. A., and Saffitz, J. E.
Safier, L. B. *See* Santos, M. T., Valles, J., Marcus, A. J., Safier, L. B., Broekman, M. J., Islam, N., Ullman, H. L., Eiroa, A. M., and Aznar, J.
Saito, H. *See* Ito, M., Mori, Y., Oiso, Y., and Saito, H.
Saito, N. *See* Jackson, C. W., Hutson, N. K., Steward, S. A., Saito, N., and Cramer, E. M.
Saito, Y. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.
Sakai, K. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.
Sakurai, A. *See* Takeda, K., Balzano, S., Sakurai, A., DeGroot, L. J., and Refetoff, S.
Salmon, J. E. *See* Edberg, J. C., Salmon, J. E., Whitlow, M., and Kimberly, R. P.
Salmon, R. F. *See* Coor, C., Salmon, R. F., Quigley, R., Marver, D., and Baum, M.
Saluja, A. *See* Hirano, T., Saluja, A., Ramarao, P., Lerch, M. M., Saluja, M., and Steer, M. L.
— *See* Saluja, M., Saluja, A., Lerch, M. M., and Steer, M. L.
Saluja, M., Saluja, A., Lerch, M. M., and Steer, M. L. A plasma protease which is expressed during supramaximal stimulation causes in vitro subcellular redistribution of lysosomal enzymes in rat exocrine pancreas. 1280.
— *See* Hirano, T., Saluja, A., Ramarao, P., Lerch, M. M., Saluja, M., and Steer, M. L.
Samuni, A., Winkelsberg, D., Pinson, A., Hahn, S. M., Mitchell, J. B., and Russo, A. Nitroxide stable radicals protect beating cardiomyocytes against oxidative damage. 1526.
Sanchez-Bueno, A. *See* Gal, C. S.-L., Jouneaux, C., Sanchez-Bueno, A., Raufaste, D., Roche, B., Préaux, A. M., Maffrand, J. P., Cobbold, P. H., Hanoune, J., and Lotersztajn, S.
Sandkamp, M. *See* Von Eckardstein, A., Holz, H., Sandkamp, M., Weng, W., Funke, H., and Assmann, G.
Santella, R. N., Maddox, D. A., and Gennari, F. J. Delivery dependence of early proximal bicarbonate reabsorption in the rat in respiratory acidosis and alkalosis. 631.
Santoro, G. *See* Ambrosio, G., Flaherty, J. T., Duilio, C., Tritto, I., Santoro, G., Elia, P. P., Condorelli, M., and Chiariello, M.
Santoro, S. A. *See* Pacifici, R., Carano, A., Santoro, S. A., Rifas, L., Jeffrey, J. J., Malone, J. D., McCracken, R., and Avioli, L. V.

Santos, M. T., Valles, J., Marcus, A. J., Safier, L. B., Broekman, M. J., Islam, N., Ullman, H. L., Eiroa, A. M., and Aznar, J. Enhancement of platelet reactivity and modulation of eicosanoid production by intact erythrocytes. A new approach to platelet activation and recruitment. 571.

Sappino, A.-P., Huarte, J., Vassalli, J.-D., and Belin, D. Sites of synthesis of urokinase and tissue-type plasminogen activators in the murine kidney. 962.

Sarfati, M. *See* Wu, C. Y., Sarfati, M., Heusser, C., Fournier, S., Rubio-Trujillo, M., Peleman, R., and Delespesse, G.

Sarin, S. K., Groszmann, R. J., Mosca, P. G., Rojkind, M., Stadecker, M. J., Bhatnagar, R., Reuben, A., and Dayal, Y. Propranolol ameliorates the development of portal-systemic shunting in a chronic murine schistosomiasis model of portal hypertension. 1032.

Särkioja, T. *See* Ylä-Herttuala, S., Rosenfeld, M. E., Parthasarathy, S., Sigal, E., Särkioja, T., Witztum, J. L., and Steinberg, D.

Sarris, G. E. *See* Yun, K. L., Niczyporuk, M. A., Sarris, G. E., Fann, J. I., and Miller, D. C.

Saruta, T. *See* Hayashi, M., Yamaji, Y., Iyori, M., Kitajima, W., and Saruta, T.

Sato, S. *See* Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J.

Satoh, K., Imaizumi, T., Kawamura, Y., Yoshida, H., Hiramoto, M., Takamatsu, S., and Takamatsu, M. Platelet-activating factor (PAF) stimulates the production of PAF acetylhydrolase by the human hepatoma cell line, HepG2. 476.

Satta, G. *See* Valisena, S., Varaldo, P. E., and Satta, G.

Saudubray, J.-M. *See* Demaugre, F., Bonnefont, J.-P., Colonna, M., Cepanec, C., Leroux, J.-P., and Saudubray, J.-M.

Savarino, S. J., Fasano, A., Robertson, D. C., and Levine, M. M. Enteroaggregative *Escherichia coli* elaborate a heat-stable enterotoxin demonstrable in an in vitro rabbit intestinal model. 1450.

Sawaya, B. P., Weihprecht, H., Campbell, W. R., Lorenz, J. N., Webb, R. C., Briggs, J. P., and Schnermann, J. Direct vasoconstriction as a possible cause for amphotericin B–induced nephrotoxicity in rats. 2097.

Saxon, A., Macy, E., Denis, K., Tary-Lehmann, M., Witte, O., and Braun, J. Limited B cell repertoire in severe combined immunodeficient mice engrafted with peripheral blood mononuclear cells derived from immunodeficient or normal humans. 658.

Schaid, D. J. *See* Khosla, S., Patel, V. M., Hay, I. D., Schaid, D. J., Grant, C. S., Van Heerden, J. A., and Thibodeau, S. N.

Scharp, D. W. *See* Atkinson, M. A., Holmes, L. A., Scharp, D. W., Lacy, P. E., and Maclaren, N. K.

Scheele, G. A. *See* Leach, S. D., Modlin, I. M., Scheele, G. A., and Gorelick, F. S.

Scheld, W. M. *See* Quagliarello, V. J., Wispelwey, B., Long, W. J., Jr., and Scheld, W. M.

Schiller, W. R. *See* Jeevanandam, M., Young, D. H., and Schiller, W. R.

Schmidt, V. M. *See* Conrad, K. P., Barrera, S. A., Friedman, P. A., and Schmidt, V. M.

Schmitz, J. *See* Pessah, M., Benlian, P., Beucler, I., Loux, N., Schmitz, J., Junien, C., and Infante, R.

Schnebli, H.-P. *See* Vogelmeier, C., Hubbard, R. C., Fells, G. A., Schnebli, H.-P., Thompson, R. C., Fritz, H., and Crystal, R. G.

Schnermann, J. *See* Sawaya, B. P., Weihprecht, H., Campbell, W. R., Lorenz, J. N., Webb, R. C., Briggs, J. P., and Schnermann, J.

Schnittler, H. *See* Suttorp, N., Polley, M., Seybold, J., Schnittler, H., Seeger, W., Grimminger, F., and Aktories, K.

Schoeb, T. R. *See* McDonald, D. M., Schoeb, T. R., and Lindsey, J. R.

Schoen, F. J. *See* Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P.

Schoolnik, G. K. *See* Palefsky, J. M., Winkler, B., Rabanus, J.-P., Clark, C., Chan, S., Nizet, V., and Schoolnik, G. K.

Schotz, M. C. *See* Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C.

Schuster, A. *See* Nadel, J. A., Conrad, D. J., Ueki, I. F., Schuster, A., and Sigal, E.

Schwaiger, M., Hutchins, G. D., Kalff, V., Rosenspire, K., Haka, M. S., Mallette, S., Deeb, G. M., Abrams, G. D., and Wieland, D. Evidence for regional catecholamine uptake and storage sites in the transplanted human heart by positron emission tomography. 1681.

Schwartz, H. L. *See* Oppenheimer, J. H., Schwartz, H. L., Lane, J. T., and Thompson, M. P.

Schwartz, J. H. *See* Beasley, D., Schwartz, J. H., and Brenner, B. M.

Schwartz, M. W. *See* McCulloch, D. K., Kahn, S. E., Schwartz, M. W., Koerker, D. J., and Palmer, J. P.

Schwartz, S. M. *See* Johnson, R. J., Iida, H., Alpers, C. E., Majesky, M. W., Schwartz, S. M., Pritzl, P., Gordon, K., and Gown, A. M.

Seeger, W. *See* Suttorp, N., Polley, M., Seybold, J., Schnittler, H., Seeger, W., Grimminger, F., and Aktories, K.

Seitz, M., Dewald, B., Gerber, N., and Baggiolini, M. Enhanced production of neutrophil-activating peptide-1/interleukin-8 in rheumatoid arthritis. 463.

Selmaj, K., Raine, C. S., Cannella, B., and Brosnan, C. F. Identification of lymphotoxin and tumor necrosis factor in multiple sclerosis lesions. 949.

Seybold, J. *See* Suttorp, N., Polley, M., Seybold, J., Schnittler, H., Seeger, W., Grimminger, F., and Aktories, K.

Seyer, J. M. *See* Postlethwaite, A. E., and Seyer, J. M.

Shackleton, C. H. L. *See* Hellerstein, M. K., Christiansen, M., Kaempfer, S., Kletke, C., Wu, K., Reid, J. S., Mulligan, K., Hellerstein, N. S., and Shackleton, C. H. L.

Shank, M. *See* Groop, L. C., Bonadonna, R. C., Shank, M., Petrides, A. S., and DeFronzo, R. A.

Shanley, P. F. *See* White, C. W., Avraham, K. B., Shanley, P. F., and Groner, Y.

Shapiro, A. D. *See* Cooney, K. A., Nichols, W. C., Bruck, M. E., Bahou, W. F., Shapiro, A. D., Bowie, E. J. W., Gralnick, H. R., and Ginsburg, D.

Shapiro, M., Matthews, J., Hecht, G., Delp, C., and Madara, J. L. Stabilization of F-actin prevents cAMP-elicited Cl^- secretion in T84 cells. 1903.

Shapiro, S. D., Endicott, S. K., Province, M. A., Pierce, J. A., and Campbell, E. J. Marked longevity of human lung parenchymal elastic fibers deduced from prevalence of D-aspartate and nuclear weapons–related radiocarbon. 1828.

Shatsky, M. *See* Burdach, S., Zessack, N., Dilloo, D., Shatsky, M., Thompson, D., and Levitt, L.

Shattil, S. J. *See* Lages, B., Shattil, S. J., Bainton, D. F., and Weiss, H. J.

Shay, J. W. *See* Velasco, S., Tarlow, M., Olsen, K., Shay, J. W., McCracken, G. H., Jr., and Nisen, P. D.

Shechter, Y. *See* Meyerovitch, J., Rothenberg, P., Shechter, Y., Bonner-Weir, S., and Kahn, C. R.

Sherman, M. L., Datta, R., Hallahan, D. E., Weichselbaum, R. R., and Kufe, D. W. Regulation of tumor necrosis factor gene expression by ionizing radiation in human myeloid leukemia cells and peripheral blood monocytes. 1794.

Sherman, W. R. *See* Wolf, B. A., Williamson, J. R., Easom, R. A., Chang, K., Sherman, W. R., and Turk, J.

Sherry, B. *See* Matoba, Y., Sherry, B., Fields, B. N., and Smith, T. W.

Shichiri, M., Hirata, Y., Nakajima, T., Ando, K., Imai, T., Yanagisawa, M., Masaki, T., and Marumo, F. Endothelin-1 is an autocrine/paracrine growth factor for human cancer cell lines. 1867.

Shirakami, G. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.

Shroff, S. *See* Carroll, J. D., Shroff, S., Wirth, P., Halsted, M., and Rajfer, S. I.

Shulman, G. I. *See* Kahn, B. B., Shulman, G. I., DeFronzo, R. A., Cushman, S. W., and Rossetti, L.

Shykoff, B. E., Naqvi, S. S. J., Menon, A. S., and Slutsky, A. S. Respiratory sinus arrhythmia in dogs. Effects of phasic afferents and chemostimulation. 1621.

Sigal, E. *See* Nadel, J. A., Conrad, D. J., Ueki, I. F., Schuster, A., and Sigal, E.

— *See* Ylä-Herttuala, S., Rosenfeld, M. E., Parthasarathy, S., Sigal, E., Särkioja, T., Witztum, J. L., and Steinberg, D.

Simon, G. L. *See* Allen, J. B., Wong, H. L., Guyre, P. M., Simon, G. L., and Wahl, S. M.

Sinclair, G. *See* Turka, L. A., Dayton, J., Sinclair, G., Thompson, C. B., and Mitchell, B. S.

Sinkey, C. A. *See* Anderson, E. A., Hoffman, R. P., Balon, T. W., Sinkey, C. A., and Mark, A. L.

Sitrin, M. D. *See* Dudeja, P. K., Wali, R. K., Klitzke, A., Sitrin, M. D., and Brasitus, T. A.
Slutsky, A. S. *See* Shykoff, B. E., Naqvi, S. S. J., Menon, A. S., and Slutsky, A. S.
Small, D. M. *See* Cistola, D. P., and Small, D. M.
Smith, A. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.
Smith, A. K. *See* Kamen, B. A., Smith, A. K., and Anderson, R. G. W.
Smith, C. W., Kishimoto, T. K., Abbassi, O., Hughes, B., Rothlein, R., McIntire, L. V., Butcher, E., Anderson, D. C. Correction. 1873.
—, Kishimoto, T. K., Abbassi, O., Hughes, B., Rothlein, R., McIntire, L. V., Butcher, E., and Anderson, D. C. Chemotactic-factors regulate lectin adhesion molecule 1 (LECAM-1)-dependent neutrophil adhesion to cytokine-stimulated endothelial cells in vitro. 609.
Smith, M. R., and Greene, W. C. Molecular biology of the type I human T-cell leukemia virus (HTLV-I) and adult T-cell leukemia. 761.
Smith, P. D. *See* Mai, U. E. H., Perez-Perez, G. I., Wahl, L. M., Wahl, S. M., Blaser, M. J., and Smith, P. D.
Smith, R. G. *See* Jonsson, O. G., Kitchens, R. L., Baer, R. J., Buchanan, G. R., and Smith, R. G.
Smith, R. M. *See* Woodman, R. C., Ruedi, J. M., Jesaitis, A. J., Okamura, N., Quinn, M. T., Smith, R. M., Curnutte, J. T., and Babior, B. M.
Smith, T. W. *See* Matoba, Y., Sherry, B., Fields, B. N., and Smith, T. W.
Snow, K. *See* Pinter, E., Peyman, J. A., Snow, K., Jamieson, J. D., and Warshaw, J. B.
Snyder, D. *See* Ahuja, H., Bar-Eli, M., Arlin, Z., Advani, S., Allen, S. L., Goldman, J., Snyder, D., Foti, A., and Cline, M.
Sobel, M., McNeill, P. M., Carlson, P. L., Kermode, J. C., Adelman, B., Conroy, R., and Marques, D. Heparin inhibition of von Willebrand factor-dependent platelet function in vitro and in vivo. 1787.
Sobrier, M.-L. *See* Amselem, S., Sobrier, M.-L., Duquesnoy, P., Rappaport, R., Postel-Vinay, M.-C., Gourmelen, M., Dallapiccola, B., and Goossens, M.
Söderström, K.-O. *See* Jalkanen, S., Joensuu, H., Söderström, K.-O., and Klemi, P.
Soll, A. H. *See* Chen, M. C., Lee, A. T., and Soll, A. H.
Solomon, A. *See* Grayzel, A., Solomon, A., Aranow, C., and Diamond, B.
Somers, V. K., Mark, A. L., and Abboud, F. M. Interaction of baroreceptor and chemoreceptor reflex control of sympathetic nerve activity in normal humans. 1953.
Sommercorn, J. *See* Maeda, R., Raz, I., Zurlo, F., and Sommercorn, J.
Sorba, S. *See* Dainiak, N., and Sorba, S.
Souza, L. M. *See* Hammond, W. P., Csiba, E., Canin, A., Hockman, H., Souza, L. M., Layton, J. E., and Dale, D. C.
Spangler, E. *See* Rubin, E. M., Witkowska, H. E., Spangler, E., Curtin, P., Lubin, B. H., Mohandes, N., and Clift, S. M.
Spinale, F. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.
Splawski, J. B., Jelinek, D. F., and Lipsky, P. E. Delineation of the functional capacity of human neonatal lymphocytes. 545.
Sporn, M. B. *See* Colletta, A. A., Wakefield, L. M., Howell, F. V., Danielpour, D., Baum, M., and Sporn, M. B.
Spritz, R. A. *See* Giebel, L. B., Tripathi, R. K., King, R. A., and Spritz, R. A.
— *See* King, R. A., Townsend, D., Oetting, W., Summers, C. G., Olds, D. P., White, J. G., and Spritz, R. A.
Spry, C. J. *See* Kernen, P., Wymann, M. P., Von Tscharner, V., Deranleau, D. A., Tai, P.-C., Spry, C. J., Dahinden, C. A., and Baggiolini, M.
Squiquera, H. L. *See* Giudice, G. J., Squiquera, H. L., Elias, P. M., and Diaz, L. A.
Stabler, S. P., Brass, E. P., Marcell, P. D., and Allen, R. H. Inhibition of cobalamin-dependent enzymes by cobalamin analogues in rats. 1422.
Stadecker, M. J. *See* Sarin, S. K., Groszmann, R. J., Mosca, P. G., Rojkind, M., Stadecker, M. J., Bhatnagar, R., Reuben, A., and Dayal, Y.
Steer, M. L. *See* Hirano, T., Saluja, A., Ramarao, P., Lerch, M. M., Saluja, M., and Steer, M. L.
— *See* Saluja, M., Saluja, A., Lerch, M. M., and Steer, M. L.
Steinberg, D. *See* Ylä-Herttuala, S., Rosenfeld, M. E., Parthasarathy, S., Sigal, E., Särkioja, T., Witztum, J. L., and Steinberg, D.
Steinberg, S. M. *See* El-Badry, O. M., Helman, L. J., Chatten, J., Steinberg, S. M., Evans, A. E., and Israel, M. A.
Steinman, R. M. *See* McElrath, M. J., Steinman, R. M., and Cohn, Z. A.
Stender, S. *See* Haarbo, J., Leth-Espensen, P., Stender, S., and Christiansen, C.
Steward, S. A. *See* Jackson, C. W., Hutson, N. K., Steward, S. A., Saito, N., and Cramer, E. M.
Stork, J. E. *See* White, R. B., Lowrie, L., Stork, J. E., Iskandar, S. S., Lamm, M. E., and Emancipator, S. N.
Strain, A. J., Ismail, T., Tsubouchi, H., Arakaki, N., Hishida, T., Kitamura, N., Daikuhara, Y., and McMaster, P. Native and recombinant human hepatocyte growth factors are highly potent promoters of DNA synthesis in both human and rat hepatocytes. 1853.
Straneva, J. E. *See* Antony, A. C., Briddell, R. A., Brandt, J. E., Straneva, J. E., Verma, R. S., Miller, M. E., Kalasinski, L. A., and Hoffman, R.
Stratakis, C. A. *See* Hurley, D. M., Accili, D., Stratakis, C. A., Karl, M., Vamvakopoulos, N., Rorer, E., Constantine, K., Taylor, S. I., and Chrousos, G. P.
Strazzabosco, M., Mennone, A., and Boyer, J. L. Intracellular pH regulation in isolated rat bile duct epithelial cells. 1503.
Strunk, R. C. *See* Kramer, J., Katz, Y., Rosen, F. S., Davis, A. E., III, and Strunk, R. C.
Sturis, J., Van Cauter, E., Blackman, J. D., and Polonsky, K. S. Entrainment of pulsatile insulin secretion by oscillatory glucose infusion. 439.
Su, W. *See* Matsui, S. M., Kim, J. P., Greenberg, H. B., Su, W., Sun, Q., Johnson, P. C., DuPont, H. L., Oshiro, L. S., and Reyes, G. R.
Subbaiah, P. V. *See* Bagdade, J. D., Ritter, M. C., and Subbaiah, P. V.
Suemori, S., Ciacci, C., and Podolsky, D. K. Regulation of transforming growth factor expression in rat intestinal epithelial cell lines. 2216.
Suga, S. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.
Summers, C. G. *See* King, R. A., Townsend, D., Oetting, W., Summers, C. G., Olds, D. P., White, J. G., and Spritz, R. A.
Sun, J. *See* Link, H., Olsson, O., Sun, J., Wang, W.-Z., Andersson, G., Ekre, H.-P., Brenner, T., Abramsky, O., and Olsson, T.
Sun, Q. *See* Matsui, S. M., Kim, J. P., Greenberg, H. B., Su, W., Sun, Q., Johnson, P. C., DuPont, H. L., Oshiro, L. S., and Reyes, G. R.
Sun, X., and Mosher, D. F. Ca^{2+}-sensitive binding of thrombospondin to U937 cells is due to the formation of calcium precipitate in the binding medium. 171.
Sundaram, U., Knickelbein, R. G., and Dobbins, J. W. Mechanism of intestinal secretion. Effect of serotonin on rabbit ileal crypt and villus cells. 743.
Suter, S. L. *See* Friedenberg, G. R., Suter, S. L., Henry, R. R., Reichart, D., and Olefsky, J. M.
Suttorp, N., Polley, M., Seybold, J., Schnittler, H., Seeger, W., Grimminger, F., and Aktories, K. Adenosine diphosphate–ribosylation of G-actin by botulinum C2 toxin increases endothelial permeability in vitro. 1575.
Swindle, M. M. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.

T

Tabuni, A. *See* Levitz, S. M., and Tabuni, A.
Taegtmeyer, H. *See* Russell, R. R., III, and Taegtmeyer, H.
Tai, P.-C. *See* Kernen, P., Wymann, M. P., Von Tscharner, V., Deranleau, D. A., Tai, P.-C., Spry, C. J., Dahinden, C. A., and Baggiolini, M.
Takamatsu, M. *See* Satoh, K., Imaizumi, T., Kawamura, Y., Yoshida, H., Hiramoto, M., Takamatsu, S., and Takamatsu, M.

Takamatsu, S. *See* Satoh, K., Imaizumi, T., Kawamura, Y., Yoshida, H., Hiramoto, M., Takamatsu, S., and Takamatsu, M.

Takeda, K., Balzano, S., Sakurai, A., DeGroot, L. J., and Refetoff, S. Screening of nineteen unrelated families with generalized resistance to thyroid hormone for known point mutations in the thyroid hormone receptor β gene and the detection of a new mutation. 496.

Takeda, T. *See* Kohno, M., Yasunari, K., Yokokawa, K., Murakawa, K.-i., Horio, T., and Takeda, T.

Takeichi, N. *See* Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J.

Takumi, T. *See* Matsuo, M., Masumura, T., Nishio, H., Nakajima, T., Kitoh, Y., Takumi, T., Koga, J., and Nakamura, H.

Tall, A. *See* Quinet, E., Tall, A., Ramakrishnan, R., and Rudel, L.

Tan, E. M. *See* Chan, E. K. L., Hamel, J. C., Buyon, J. P., and Tan, E. M.

Tang, K. *See* Apodaca, G., Bomsel, M., Arden, J., Breitfeld, P. P., Tang, K., and Mostov, K. E.

Tang, N. M. *See* Pulliam, L., Herndier, B. G., Tang, N. M., and McGrath, M. S.

Tanoue, A., Endo, F., Akaboshi, I., Oono, T., Arata, J., and Matsuda, I. Molecular defect in siblings with prolidase deficiency and absence or presence of clinical symptoms. A 0.8-kb deletion with breakpoints at the short, direct repeat in the PEPD gene and synthesis of abnormal messenger RNA and inactive polypeptide. 1171.

Tapscott, S. J., and Weintraub, H. MyoD and the regulation of myogenesis by helix-loop-helix proteins. 1133.

Tarlow, M. *See* Velasco, S., Tarlow, M., Olsen, K., Shay, J. W., McCracken, G. H., Jr., and Nisen, P. D.

Tary-Lehmann, M. *See* Saxon, A., Macy, E., Denis, K., Tary-Lehmann, M., Witte, O., and Braun, J.

Tatake, R. *See* D'Urso, C. M., Wang, Z., Cao, Y., Tatake, R., Zeff, R. A., and Ferrone, S.

Taurog, J. D. *See* Jasin, H. E., and Taurog, J. D.

Tay, D. L. M., Bhathal, P. S., and Fox, R. M. Quantitation of G_0 and G_1 phase cells in primary carcinomas. Antibody to M_1 subunit of ribonucleotide reductase shows G_1 phase restriction point block. 519.

Taylor, S. I. *See* Hurley, D. M., Accili, D., Stratakis, C. A., Karl, M., Vamvakopoulos, N., Rorer, E., Constantine, K., Taylor, S. I., and Chrousos, G. P.

Tedgui, A. *See* Vicaut, E., Hou, X., Payen, D., Bousseau, A., and Tedgui, A.

Teitelbaum, I. Vasopressin-stimulated phosphoinositide hydrolysis in cultured rat inner medullary collecting duct cells is mediated by the oxytocin receptor. 2122.

Telen, M. J. *See* Lublin, D. M., Thompson, E. S., Green, A. M., Levene, C., and Telen, M. J.

Teng, B.-B. *See* Jacoby, R. F., Llor, X., Teng, B.-B., Davidson, N. O., and Brasitus, T. A.

Terai, C., Kornbluth, R. S., Pauza, C. D., Richman, D. D., and Carson, D. A. Apoptosis as a mechanism of cell death in cultured T lymphoblasts acutely infected with HIV-1. 1710.

Terkeltaub, R. A., Dyer, C. A., Martin, J., and Curtiss, L. K. Apolipoprotein (Apo) E inhibits the capacity of monosodium urate crystals to stimulate neutrophils. Characterization of intraarticular Apo E and demonstration of Apo E binding to urate crystals in vivo. 20.

Terlain, B. *See* Vannier, E., Lefort, J., Lellouch-Tubiana, A., Terlain, B., and Vargaftig, B. B.

Tesfamariam, B., Brown, M. L., and Cohen, R. A. Elevated glucose impairs endothelium-dependent relaxation by activating protein kinase C. 1643.

Thibodeau, S. N. *See* Khosla, S., Patel, V. M., Hay, I. D., Schaid, D. J., Grant, C. S., Van Heerden, J. A., and Thibodeau, S. N.

Thompson, C. B. *See* Turka, L. A., Dayton, J., Sinclair, G., Thompson, C. B., and Mitchell, B. S.

Thompson, D. *See* Burdach, S., Zessack, N., Dilloo, D., Shatsky, M., Thompson, D., and Levitt, L.

Thompson, E. S. *See* Lublin, D. M., Thompson, E. S., Green, A. M., Levene, C., and Telen, M. J.

Thompson, H. L., Burbelo, P. D., Gabriel, G., Yamada, Y., and Metcalfe, D. D. Murine mast cells synthesize basement membrane components. A potential role in early fibrosis. 619.

Thompson, K. *See* Victor, K. D., Randen, I., Thompson, K., Forre, O., Natvig, J. B., Fu, S. M., and Capra, J. D.

Thompson, M. P. *See* Oppenheimer, J. H., Schwartz, H. L., Lane, J. T., and Thompson, M. P.

Thompson, R. C. *See* Abe, T., Kobayashi, N., Yoshimura, K., Trapnell, B. C., Kim, H., Hubbard, R. C., Brewer, M. T., Thompson, R. C., and Crystal, R. G.

— *See* Vogelmeier, C., Hubbard, R. C., Fells, G. A., Schnebli, H.-P., Thompson, R. C., Fritz, H., and Crystal, R. G.

Thorburn, A. W., Gumbiner, B., Bulacan, F., Brechtel, G., and Henry, R. R. Multiple defects in muscle glycogen synthase activity contribute to reduced glycogen synthesis in non-insulin dependent diabetes mellitus. 489.

Thornton, E. *See* Di Giovine, F. S., Malawista, S. E., Thornton, E., and Duff, G. W.

Tilley, W. D. *See* McPhaul, M. J., Marcelli, M., Tilley, W. D., Griffin, J. E., Isidro-Gutierrez, R. F., and Wilson, J. D.

Togashi, Y. *See* Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J.

Toll, L. *See* Keung, E. C., Toll, L., Ellis, M., and Jensen, R. A.

Tollefsen, S. E., Heath-Monnig, E., Cascieri, M. A., Bayne, M. L., and Daughaday, W. H. Endogenous insulin-like growth factor (IGF) binding proteins cause IGF-I resistance in cultured fibroblasts from a patient with short stature. 1241.

Toribara, N. W. *See* Bresalier, R. S., Niv, Y., Byrd, J. C., Duh, Q.-Y., Toribara, N. W., Rockwell, R. W., Dahiya, R., and Kim, Y. S.

Touchard, G. *See* Cogné, M., Preud'homme, J-L, Bauwens, M., Touchard, G., and Aucouturier, P.

Touw, I. P. *See* Elbaz, O., Budel, L. M., Hoogerbrugge, H., Touw, I. P., Delwel, R., Mahmoud, L. A., and Löwenberg, B.

Townsend, D. *See* King, R. A., Townsend, D., Oetting, W., Summers, C. G., Olds, D. P., White, J. G., and Spritz, R. A.

Tracey, K. J. *See* Bucala, R., Tracey, K. J., and Cerami, A.

Traish, A. M. *See* Bakris, G. L., Fairbanks, R., and Traish, A. M.

Trapnell, B. C. *See* Abe, T., Kobayashi, N., Yoshimura, K., Trapnell, B. C., Kim, H., Hubbard, R. C., Brewer, M. T., Thompson, R. C., and Crystal, R. G.

Tripathi, R. K. *See* Giebel, L. B., Tripathi, R. K., King, R. A., and Spritz, R. A.

Tritto, I. *See* Ambrosio, G., Flaherty, J. T., Duilio, C., Tritto, I., Santoro, G., Elia, P. P., Condorelli, M., and Chiariello, M.

Tsai, S.-C. *See* Lee, C.-M., Chang, P. P., Tsai, S.-C., Adamik, R., Price, S. R., Kunz, B. C., Moss, J., Twiddy, E. M., and Holmes, R. K.

Tsilivakos, V. *See* Ammar, A., Cibert, C., Bertoli, A.-M., Tsilivakos, V., Jasmin, C., and Georgoulias, V.

Tsokos, G. C. *See* Boumpas, D. T., Anastassiou, E. D., Older, S. A., Tsokos, G. C., Nelson, D. L., and Balow, J. E.

Tsubouchi, H. *See* Strain, A. J., Ismail, T., Tsubouchi, H., Arakaki, N., Hishida, T., Kitamura, N., Daikuhara, Y., and McMaster, P.

Tucker, B. J. *See* Hirschberg, R., Kopple, J. D., Blantz, R. C., and Tucker, B. J.

Turk, J. *See* Wolf, B. A., Williamson, J. R., Easom, R. A., Chang, K., Sherman, W. R., and Turk, J.

Turka, L. A., Dayton, J., Sinclair, G., Thompson, C. B., and Mitchell, B. S. Guanine ribonucleotide depletion inhibits T cell activation. Mechanism of action of the immunosuppressive drug mizoribine. 940.

Tuszynski, G. P., and Kowalska, M. A. Thrombospondin-induced adhesion of human platelets. 1387.

Twiddy, E. M. *See* Lee, C.-M., Chang, P. P., Tsai, S.-C., Adamik, R., Price, S. R., Kunz, B. C., Moss, J., Twiddy, E. M., and Holmes, R. K.

U

Uchino, J. *See* Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J.

Ueki, I. F. *See* Nadel, J. A., Conrad, D. J., Ueki, I. F., Schuster, A., and Sigal, E.

Uitto, J. *See* Hsiao, L. L., Peltonen, J., Jaakkola, S., Grainick, H., and Uitto, J.

Ullman, H. L. *See* Santos, M. T., Valles, J., Marcus, A. J., Safier, L. B., Broekman, M. J., Islam, N., Ullman, H. L., Eiroa, A. M., and Aznar, J.

Une, Y. *See* Li, Y., Togashi, Y., Sato, S., Emoto, T., Kang, J.-H., Takeichi, N., Kobayashi, H., Kojima, Y., Une, Y., and Uchino, J.

V

Valisena, S., Varaldo, P. E., and Satta, G. Staphylococcal Endo-β-*N*-acetylglucosaminidase inhibits response of human lymphocytes to mitogens and interferes with production of antibodies in mice. 1969.

Valles, J. *See* Santos, M. T., Valles, J., Marcus, A. J., Safier, L. B., Broekman, M. J., Islam, N., Ullman, H. L., Eiroa, A. M., and Aznar, J.

Vamvakopoulos, N. *See* Hurley, D. M., Accili, D., Stratakis, C. A., Karl, M., Vamvakopoulos, N., Rorer, E., Constantine, K., Taylor, S. I., and Chrousos, G. P.

Van Cauter, E. *See* Sturis, J., Van Cauter, E., Blackman, J. D., and Polonsky, K. S.

Van den Berghe, G. *See* Van Waeg, G., and Van den Berghe, G.

Van der Ploeg, A. T., Kroos, M. A., Willemsen, R., Brons, N. H. C., and Reuser, A. J. J. Intravenous administration of phosphorylated acid α-glucosidase leads to uptake of enzyme in heart and skeletal muscle of mice. 513.

Van Heerden, J. A. *See* Khosla, S., Patel, V. M., Hay, I. D., Schaid, D. J., Grant, C. S., Van Heerden, J. A., and Thibodeau, S. N.

Van Lenten, B. J. *See* Navab, M., Liao, F., Hough, G. P., Ross, L. A., Van Lenten, B. J., Rajavashisth, T. B., Lusis, A. J., Laks, H., Drinkwater, D. C., and Fogelman, A. M.

Vannier, E., Lefort, J., Lellouch-Tubiana, A., Terlain, B., and Vargaftig, B. B. Lipopolysaccharide from *Escherichia coli* reduces antigen-induced bronchoconstriction in actively sensitized guinea pigs. 1936.

Van Sande, J. *See* Laurent, E., Van Sande, J., Ludgate, M., Corvilain, B., Rocmans, P., Dumont, J. E., and Mockel, J.

Van Waeg, G., and Van den Berghe, G. Purine catabolism in polymorphonuclear neutrophils. Phorbol myristate acetate-induced accumulation of adenosine owing to inactivation of extracellularly released adenosine deaminase. 305.

Varaldo, P. E. *See* Valisena, S., Varaldo, P. E., and Satta, G.

Varani, J. *See* Castle, V., Varani, J., Fligiel, S., Prochownik, E. V., and Dixit, V.

Vargaftig, B. B. *See* Vannier, E., Lefort, J., Lellouch-Tubiana, A., Terlain, B., and Vargaftig, B. B.

Vassalli, J.-D. *See* Sappino, A.-P., Huarte, J., Vassalli, J.-D., and Belin, D.

Vatner, D. E. *See* Chen, L., Vatner, D. E., Vatner, S. F., Hittinger, L., and Homcy, C. J.

Vatner, S. F. *See* Chen, L., Vatner, D. E., Vatner, S. F., Hittinger, L., and Homcy, C. J.

Velasco, S., Tarlow, M., Olsen, K., Shay, J. W., McCracken, G. H., Jr., and Nisen, P. D. Temperature-dependent modulation of lipopolysaccharide-induced interleukin-1β and tumor necrosis factor α expression in cultured human astroglial cells by dexamethasone and indomethacin. 1674.

Venkatachalam, M. A. *See* Weinberg, J. M., Davis, J. A., Roeser, N. F., and Venkatachalam, M. A.

Vercellotti, G. M. *See* Gustafson, K. S., Vercellotti, G. M., Bendel, C. M., and Hostetter, M. K.

Verheijen, F. W. *See* Mancini, G. M. S., Beerens, C. E. M. T., Aula, P. P., and Verheijen, F. W.

Verma, R. S. *See* Antony, A. C., Briddell, R. A., Brandt, J. E., Straneva, J. E., Verma, R. S., Miller, M. E., Kalasinski, L. A., and Hoffman, R.

Vicaut, E., Hou, X., Payen, D., Bousseau, A., and Tedgui, A. Acute effects of tumor necrosis factor on the microcirculation in rat cremaster muscle. 1537.

Victor, K. D., Randen, I., Thompson, K., Forre, O., Natvig, J. B., Fu, S. M., and Capra, J. D. Rheumatoid factors isolated from patients with autoimmune disorders are derived from germline genes distinct from those encoding the Wa, Po, and Bla cross-reactive idiotypes. 1603.

Vitols, S. *See* Ericsson, S., Eriksson, M., Vitols, S., Einarsson, K., Berglund, L., and Angelin, B.

Vogelmeier, C., Hubbard, R. C., Fells, G. A., Schnebli, H.-P., Thompson, R. C., Fritz, H., and Crystal, R. G. Anti-neutrophil elastase defense of the normal human respiratory epithelial surface provided by the secretory leukoprotease inhibitor. 482.

— *See* Ogushi, F., Hubbard, R. C., Vogelmeier, C., Fells, G. A., and Crystal, R. G.

Volpp, B. D. *See* Heyworth, P. G., Curnutte, J. T., Nauseef, W. M., Volpp, B. D., Pearson, D. W., Rosen, H., and Clark, R. A.

Von Eckardstein, A., Holz, H., Sandkamp, M., Weng, W., Funke, H., and Assmann, G. Apolipoprotein C-III(Lys_{58} → Glu). Identification of an apolipoprotein C-III variant in a family with hyperalphalipoproteinemia. 1724.

— *See* Funke, H., Von Eckardstein, A., Pritchard, P. H., Karas, M., Albers, J. J., and Assmann, G.

Von Tscharner, V. *See* Kernen, P., Wymann, M. P., Von Tscharner, V., Deranleau, D. A., Tai, P.-C., Spry, C. J., Dahinden, C. A., and Baggiolini, M.

Vuillet-Gaugler, M. H. *See* Rosemblatt, M., Vuillet-Gaugler, M. H., Leroy, C., and Coulombel, L.

W

Wachsman, W. *See* Kekow, J., Wachsman, W., McCutchan, J. A., Gross, W. L., Zachariah, M., Carson, D. A., and Lotz, M.

Wahl, L. M. *See* Mai, U. E. H., Perez-Perez, G. I., Wahl, L. M., Wahl, S. M., Blaser, M. J., and Smith, P. D.

Wahl, S. M. *See* Allen, J. B., Wong, H. L., Guyre, P. M., Simon, G. L., and Wahl, S. M.

— *See* Brandes, M. E., Allen, J. B., Ogawa, Y., and Wahl, S. M.

— *See* Mai, U. E. H., Perez-Perez, G. I., Wahl, L. M., Wahl, S. M., Blaser, M. J., and Smith, P. D.

Wakabayashi, G., Gelfand, J. A., Jung, W. K., Connolly, R. J., Burke, J. F., and Dinarello, C. A. *Staphylococcus epidermidis* induces complement activation, tumor necrosis factor and interleukin-1, a shock-like state and tissue injury in rabbits without endotoxemia. Comparison to *Escherichia coli*. 1925.

Wakefield, L. M. *See* Colletta, A. A., Wakefield, L. M., Howell, F. V., Danielpour, D., Baum, M., and Sporn, M. B.

Wali, R. K. *See* Dudeja, P. K., Wali, R. K., Klitzke, A., Sitrin, M. D., and Brasitus, T. A.

Walter, M. A., Gibson, W. T., Ebers, G. C., and Cox, D. W. Susceptibility to multiple sclerosis is associated with the proximal immunoglobulin heavy chain variable region. 1266.

Wang, J. M. *See* Bussolino, F., Ziche, M., Wang, J. M., Alessi, D., Morbidelli, L., Cremona, O., Bosia, A., Marchisio, P. C., and Mantovani, A.

Wang, W.-Z. *See* Link, H., Olsson, O., Sun, J., Wang, W.-Z., Andersson, G., Ekre, H.-P., Brenner, T., Abramsky, O., and Olsson, T.

Wang, Z. *See* D'Urso, C. M., Wang, Z., Cao, Y., Tatake, R., Zeff, R. A., and Ferrone, S.

Wang, Z.-S. *See* Wershil, B. K., Wang, Z.-S., Gordon, J. R., and Galli, S. J.

Wardlaw, A. J. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.

Warren, S. E. *See* Gwathmey, J. K., Warren, S. E., Briggs, G. M., Copelas, L., Feldman, M. D., Phillips, P. J., Callahan, M., Jr., Schoen, F. J., Grossman, W., and Morgan, J. P.

Warshaw, J. B. *See* Pinter, E., Peyman, J. A., Snow, K., Jamieson, J. D., and Warshaw, J. B.

Watanabe, K. *See* Ikeda, Y., Handa, M., Kawano, K., Kamata, T., Murata, M., Araki, Y., Anbo, H., Kawai, Y., Watanabe, K., Itagaki, I., Sakai, K., and Ruggeri, Z. M.

Watkins, D. *See* Manheimer-Lory, A. J., Davidson, A., Watkins, D., Hannigan, N. R., and Diamond, B. A.

Webb, R. C. *See* Sawaya, B. P., Weihprecht, H., Campbell, W. R., Lorenz, J. N., Webb, R. C., Briggs, J. P., and Schnermann, J.

Wei, C.-M. *See* Perrella, M. A., Margulies, K. B., Wei, C.-M., Aarhus, L. L., Heublein, D. M., and Burnett, J. C., Jr.
Weichselbaum, R. R. *See* Sherman, M. L., Datta, R., Hallahan, D. E., Weichselbaum, R. R., and Kufe, D. W.
Weihprecht, H. *See* Sawaya, B. P., Weihprecht, H., Campbell, W. R., Lorenz, J. N., Webb, R. C., Briggs, J. P., and Schnermann, J.
Weinberg, J. M., Davis, J. A., Roeser, N. F., and Venkatachalam, M. A. Role of increased cytosolic free calcium in the pathogenesis of rabbit proximal tubule cell injury and protection by glycine or acidosis. 581.
Weiner, I. D., and Hamm, L. L. Regulation of Cl^-/HCO_3^- exchange in the rabbit cortical collecting tubule. 1553.
Weintraub, H. *See* Tapscott, S. J., and Weintraub, H.
Weis, M. A. *See* Eyre, D. R., Weis, M. A., and Moskowitz, R. W.
Weiss, G. *See* Maher, E., Bardequez, A., Gardner, J. P., Goldsmith, L., Weiss, G., Mascarina, M., and Aviv, A.
Weiss, H. J. *See* Lages, B., Shattil, S. J., Bainton, D. F., and Weiss, H. J.
Weiss, S. J. *See* Desrochers, P. E., Jeffrey, J. J., and Weiss, S. J.
Weitz, J. I., Leslie, B., and Ginsberg, J. Soluble fibrin degradation products potentiate tissue plasminogen activator–induced fibrinogen proteolysis. 1082.
Welty, F. K., Hubl, S. T., Pierotti, V. R., and Young, S. G. A truncated species of apolipoprotein B (B67) in a kindred with familial hypobetalipoproteinemia. 1748.
Weng, W. *See* Von Eckardstein, A., Holz, H., Sandkamp, M., Weng, W., Funke, H., and Assmann, G.
Wershil, B. K., Wang, Z.-S., Gordon, J. R., and Galli, S. J. Recruitment of neutrophils during IgE-dependent cutaneous late phase reactions in the mouse is mast cell-dependent. Partial inhibition of the reaction with antiserum against tumor necrosis factor-alpha. 446.
— *See* Perdue, M. H., Masson, S., Wershil, B. K., and Galli, S. J.
White, C. W., Avraham, K. B., Shanley, P. F., and Groner, Y. Transgenic mice with expression of elevated levels of copper-zinc superoxide dismutase in the lungs are resistant to pulmonary oxygen toxicity. 2162.
White, J. G. *See* King, R. A., Townsend, D., Oetting, W., Summers, C. G., Olds, D. P., White, J. G., and Spritz, R. A.
White, P. C., Dupont, J., New, M. I., Leiberman, E., Hochberg, Z., and Rösler, A. A mutation in CYP11B1 (Arg-448 → His) associated with steroid 11β-hydroxylase deficiency in Jews of Moroccan origin. 1664.
White, R. B., Lowrie, L., Stork, J. E., Iskandar, S. S., Lamm, M. E., and Emancipator, S. N. Targeted enzyme therapy of experimental glomerulonephritis in rats. 1819.
Whitfield, H. J., Jr. *See* Brady, L. S., Whitfield, H. J., Jr., Fox, R. J., Gold, P. W., and Herkenham, M.
Whitlow, M. *See* Edberg, J. C., Salmon, J. E., Whitlow, M., and Kimberly, R. P.
Wieland, D. *See* Schwaiger, M., Hutchins, G. D., Kalff, V., Rosenspire, K., Haka, M. S., Mallette, S., Deeb, G. M., Abrams, G. D., and Wieland, D.
Wilcox, J. N. *See* Golden, M. A., Au, Y. P. T., Kirkman, T. R., Wilcox, J. N., Raines, E. W., Ross, R., and Clowes, A. W.
Wilkemeyer, M. F., Crane, A. M., and Ledley, F. D. Differential diagnosis of *mut* and *cbl* methylmalonic aciduria by DNA-mediated gene transfer in primary fibroblasts. 915.
Willemsen, R. *See* Van der Ploeg, A. T., Kroos, M. A., Willemsen, R., Brons, N. H. C., and Reuser, A. J. J.
Williams, D. L. *See* Bass, J., Fisher, E. A., Prack, M. M., Williams, D. L., and Marsh, J. B.
Williamson, J. R. *See* Wolf, B. A., Williamson, J. R., Easom, R. A., Chang, K., Sherman, W. R., and Turk, J.
Wilmoth, L. M. G. *See* Lord, P. C. W., Wilmoth, L. M. G., Mizel, S. B., and McCall, C. E.
Wilson, C. B. *See* Lewis, D. B., Yu, C. C., Meyer, J., English, B. K., Kahn, S. J., and Wilson, C. B.
Wilson, J. D. *See* Marcelli, M., Zoppi, S., Grino, P. B., Griffin, J. E., Wilson, J. D., and McPhaul, M. J.
— *See* McPhaul, M. J., Marcelli, M., Tilley, W. D., Griffin, J. E., Isidro-Gutierrez, R. F., and Wilson, J. D.
Winkelsberg, D. *See* Samuni, A., Winkelsberg, D., Pinson, A., Hahn, S. M., Mitchell, J. B., and Russo, A.
Winkler, B. *See* Palefsky, J. M., Winkler, B., Rabanus, J.-P., Clark, C., Chan, S., Nizet, V., and Schoolnik, G. K.
Winkler, F. *See* Henderson, H. E., Ma, Y., Hassan, M. F., Monsalve, M. V., Marais, A. D., Winkler, F., Gubernator, K., Peterson, J., Brunzell, J. D., and Hayden, M. R.
Winkler, J. *See* Perez, H. D., Kelly, E., Elfman, F., Armitage, G., and Winkler, J.
Wirth, P. *See* Carroll, J. D., Shroff, S., Wirth, P., Halsted, M., and Rajfer, S. I.
Wispelwey, B. *See* Quagliarello, V. J., Wispelwey, B., Long, W. J., Jr., and Scheld, W. M.
Witkowska, H. E. *See* Rubin, E. M., Witkowska, H. E., Spangler, E., Curtin, P., Lubin, B. H., Mohandes, N., and Clift, S. M.
Witte, O. *See* Saxon, A., Macy, E., Denis, K., Tary-Lehmann, M., Witte, O., and Braun, J.
Witztum, J. L. *See* Rosenfeld, M. E., Khoo, J. C., Miller, E., Parthasarathy, S., Palinski, W., and Witztum, J. L.
— *See* Ylä-Herttuala, S., Rosenfeld, M. E., Parthasarathy, S., Sigal, E., Särkioja, T., Witztum, J. L., and Steinberg, D.
Wolber, F. *See* Phan, S. H., Gharaee-Kermani, M., Wolber, F., and Ryan, U. S.
Wolf, B. A., Williamson, J. R., Easom, R. A., Chang, K., Sherman, W. R., and Turk, J. Diacylglycerol accumulation and microvascular abnormalities induced by elevated glucose levels. 31.
Wolkoff, A. W. *See* Min, A. D., Johansen, K. L., Campbell, C. G., and Wolkoff, A. W.
Wollenberg, G. K. *See* LaMarre, J., Hayes, M. A., Wollenberg, G. K., Hussaini, I., Hall, S. W., and Gonias, S. L.
Wong, H. *See* Ameis, D., Kobayashi, J., Davis, R. C., Ben-Zeev, O., Malloy, M. J., Kane, J. P., Lee, G., Wong, H., Havel, R. J., and Schotz, M. C.
Wong, H. L. *See* Allen, J. B., Wong, H. L., Guyre, P. M., Simon, G. L., and Wahl, S. M.
Woodman, R. C., Ruedi, J. M., Jesaitis, A. J., Okamura, N., Quinn, M. T., Smith, R. M., Curnutte, J. T., and Babior, B. M. Respiratory burst oxidase and three of four oxidase-related polypeptides are associated with the cytoskeleton of human neutrophils. 1345.
Wu, C. Y., Sarfati, M., Heusser, C., Fournier, S., Rubio-Trujillo, M., Peleman, R., and Delespesse, G. Glucocorticoids increase the synthesis of immunoglobulin E by interleukin 4–stimulated human lymphocytes. 870.
Wu, K. *See* Hellerstein, M. K., Christiansen, M., Kaempfer, S., Kletke, C., Wu, K., Reid, J. S., Mulligan, K., Hellerstein, N. S., and Shackleton, C. H. L.
Wymann, M. P. *See* Kernen, P., Wymann, M. P., Von Tscharner, V., Deranleau, D. A., Tai, P.-C., Spry, C. J., Dahinden, C. A., and Baggiolini, M.
Wysong, D. R. *See* Diamond, R. D., Lyman, C. A., and Wysong, D. R.

X

Xi, X.-P. *See* Krapf, R., Pearce, D., Lynch, C., Xi, X.-P., Reudelhuber, T. L., Pouysségur, J., and Rector, F. C., Jr.

Y

Yamada, Y. *See* Thompson, H. L., Burbelo, P. D., Gabriel, G., Yamada, Y., and Metcalfe, D. D.
Yamaji, Y. *See* Hayashi, M., Yamaji, Y., Iyori, M., Kitajima, W., and Saruta, T.
Yan, P-S. *See* Jany, B. H., Gallup, M. W., Yan, P-S, Gum, J. R., Kim, Y. S., and Basbaum, C. B.
Yanagisawa, M. *See* Shichiri, M., Hirata, Y., Nakajima, T., Ando, K., Imai, T., Yanagisawa, M., Masaki, T., and Marumo, F.
Yang, C.-Z. *See* Maridonneau-Parini, I., Yang, C.-Z., Bornens, M., and Goud, B.
Yasue, H. *See* Mukoyama, M., Nakao, K., Hosoda, K., Suga, S., Saito, Y., Ogawa, Y., Shirakami, G., Jougasaki, M., Obata, K., Yasue, H., Kambayashi, Y., Inouye, K., and Imura, H.

Yasunari, K. *See* Kohno, M., Yasunari, K., Yokokawa, K., Murakawa, K.-i., Horio, T., and Takeda, T.

Ying, S. *See* Hamid, Q., Azzawi, M., Ying, S., Moqbel, R., Wardlaw, A. J., Corrigan, C. J., Bradley, B., Durham, S. R., Collins, J. V., Jeffery, P. K., Quint, D. J., and Kay, A. B.

Ylä-Herttuala, S., Rosenfeld, M. E., Parthasarathy, S., Sigal, E., Särkioja, T., Witztum, J. L., and Steinberg, D. Gene expression in macrophage-rich human atherosclerotic lesions. 15-Lipoxygenase and acetyl low density lipoprotein receptor messenger RNA colocalize with oxidation specific lipid-protein adducts. 1146.

Yokokawa, K. *See* Kohno, M., Yasunari, K., Yokokawa, K., Murakawa, K.-i., Horio, T., and Takeda, T.

Yoneda, T., Alsina, M. A., Chavez, J. B., Bonewald, L., Nishimura, R., and Mundy, G. R. Evidence that tumor necrosis factor plays a pathogenetic role in the paraneoplastic syndromes of cachexia, hypercalcemia, and leukocytosis in a human tumor in nude mice. 977.

Yoshida, H. *See* Satoh, K., Imaizumi, T., Kawamura, Y., Yoshida, H., Hiramoto, M., Takamatsu, S., and Takamatsu, M.

Yoshimura, K. *See* Abe, T., Kobayashi, N., Yoshimura, K., Trapnell, B. C., Kim, H., Hubbard, R. C., Brewer, M. T., Thompson, R. C., and Crystal, R. G.

Yoshioka, A. *See* Nobukuni, Y., Mitsubuchi, H., Akaboshi, I., Indo, Y., Endo, F., Yoshioka, A., and Matsuda, I.

Young, D. H. *See* Jeevanandam, M., Young, D. H., and Schiller, W. R.

Young, L. H., McNulty, P. H., Morgan, C., Deckelbaum, L. I., Zaret, B. L., and Barrett, E. J. Myocardial protein turnover in patients with coronary artery disease. Effect of branched chain amino acid infusion. 554.

Young, S. G. *See* Welty, F. K., Hubl, S. T., Pierotti, V. R., and Young, S. G.

Yu, C. C. *See* Lewis, D. B., Yu, C. C., Meyer, J., English, B. K., Kahn, S. J., and Wilson, C. B.

Yun, K. L., Niczyporuk, M. A., Sarris, G. E., Fann, J. I., and Miller, D. C. Importance of mitral subvalvular apparatus in terms of cardiac energetics and systolic mechanics in the ejecting canine heart. 247.

Z

Zachariah, M. *See* Kekow, J., Wachsman, W., McCutchan, J. A., Gross, W. L., Zachariah, M., Carson, D. A., and Lotz, M.

Zahm, J. M. *See* Plotkowski, M. C., Chevillard, M., Pierrot, D., Altemayer, D., Zahm, J. M., Colliot, G., and Puchelle, E.

Zaret, B. L. *See* Young, L. H., McNulty, P. H., Morgan, C., Deckelbaum, L. I., Zaret, B. L., and Barrett, E. J.

Zeff, R. A. *See* D'Urso, C. M., Wang, Z., Cao, Y., Tatake, R., Zeff, R. A., and Ferrone, S.

Zessack, N. *See* Burdach, S., Zessack, N., Dilloo, D., Shatsky, M., Thompson, D., and Levitt, L.

Zhou, X.-J. *See* Fadda, G. Z., Hajjar, S. M., Perna, A. F., Zhou, X.-J., Lipson, L. G., and Massry, S. G.

Ziche, M. *See* Bussolino, F., Ziche, M., Wang, J. M., Alessi, D., Morbidelli, L., Cremona, O., Bosia, A., Marchisio, P. C., and Mantovani, A.

Zile, M. R. *See* Nakano, K., Swindle, M. M., Spinale, F., Ishihara, K., Kanazawa, S., Smith, A., Biederman, R. W. W., Clamp, L., Hamada, Y., Zile, M. R., and Carabello, B. A.

Zimmerman, L. H., Levine, R. A., and Farber, H. W. Hypoxia induces a specific set of stress proteins in cultured endothelial cells. 908.

Zioncheck, T. F., Powell, L. M., Rice, G. C., Eaton, D. L., and Lawn, R. M. Interaction of recombinant apolipoprotein(a) and lipoprotein(a) with macrophages. 767.

Zoppi, S. *See* Marcelli, M., Zoppi, S., Grino, P. B., Griffin, J. E., Wilson, J. D., and McPhaul, M. J.

Zuo, W. M. *See* Naftilan, A. J., Zuo, W. M., Inglefinger, J., Ryan, T. J., Jr., Pratt, R. E., and Dzau, V. J.

Zurlo, F. *See* Maeda, R., Raz, I., Zurlo, F., and Sommercorn, J.